

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES  
**REPORT OF PROPERTY AND WELL TRANSFER**

Field or county <b>Cat Canyon</b>	District: <b>3 - SANTA MARIA</b>
Former owner <b>Venoco, Inc.</b>	Opcode: <b>V1150</b> Date: <b>December 27, 2010</b>
Name and location of well(s)	
<u>Sec. 4, T. 8N, R. 32W S.B. B&amp;M (4)</u> "Tognazzini" 3 (083-01443) "Tognazzini" 4 (083-00344) "Tognazzini" 17 (083-01455) "Tognazzini" 20 (083-20008) <u>Sec. 9, T. 8N, R. 32W S.B. B&amp;M (21)</u> "Tognazzini" 1 (083-01440) "Tognazzini" 1-A (083-01398) "Tognazzini" 1-W (083-01441) "Tognazzini" 2 (083-01161) "Tognazzini" 2B (083-01442) "Tognazzini" 3 (083-01399) "Tognazzini" 3-A (083-01162) "Tognazzini" 6 (083-01445) "Tognazzini" 7 (083-01446) "Tognazzini" 8 (083-01447) "Tognazzini" 9 (083-01448)	<u>Sec. 9, T. 8N, R. 32W S.B. B&amp;M</u> "Tognazzini" 14 (083-01452) "Tognazzini" 15 (083-01453) "Tognazzini" 16 (083-01454) "Tognazzini" 18 (083-01456) "Tognazzini" 20 (083-01401) "Tognazzini" 21-A (083-01402) "Tognazzini" 23 (083-01403) "Tognazzini" 31 (083-01404) "Tognazzini" 42 (083-01406) "Tognazzini" 51 (083-01407) <u>Sec. 10, T. 8N, R. 32W S.B. B&amp;M (5)</u> "Tognazzini" 5 (083-01444) "Tognazzini" 32-B (083-01405) "Tognazzini" 43-A (083-01655) "Tognazzini" 52 (083-01408) "Tognazzini" 112 (083-01409)

CONTINUED ON PAGE 2

Date of transfer, sale, assignment, conveyance, or exchange <b>11-01-2010</b>	New Owner <b>ERG Operating Company, L.L.C.</b>	Operator code <b>E0255</b>	Type of Organization <b>Corporation</b>
	Address <b>600 Travis, Suite 7050 Houston, TX 77002</b>		Telephone No. <b>(713) 812-1800</b>

Reported by  
**ERG Operating Company, L.L.C.**

Confirmed by **Venoco, Inc.**

New operator new status <b>PA</b>	Request Designation of Agent
Old operator new status <b>PA</b>	Remarks <b>Acquiring company has a blanket bond.</b>

Deputy Supervisor  
**Patricia A. Abel**

Signature



**OPERATOR STATUS ABBREVIATIONS**


	FORM AND RECORD CHECK LIST					
	Form or record	Initials	Date	Form or record	Initials	Date
PA - Producing Active						
NPA - No Potential Active						
PI - Potential Inactive	Form OGD121	CB	12-27-10	Map and Book		
NPI - No Potential Inactive	Well records	CB	12-27-10	Lease Files	CB	
Ab - Abandoned or No More Wells	New well cards			Well Stat	CB	12-28-10
PAA:cb	Bond Status			District Computer Files	CB	12-28-10
cc: <b>ERG Operating Co. LLC</b>	Annual Report	CB	12-27-10			
<b>Venoco, Inc.</b>						

Santa Barbara County  
Cons. Committee - Transfer File - Harold Bertholf - Helen Jan

OGD156 (Modified 1/00)

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RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES  
**REPORT OF PROPERTY AND WELL TRANSFER**

Field or county      Cat Canyon		District: 3 - SANTA MARIA	
Former owner      Venoco, Inc.		Opcode: V1150	Date: December 27, 2010
Name and location of well(s)			
<u>Sec. 15, T. 8N, R. 32W S.B. B&amp;M (11)</u> "Tognazzini" 10      (083-01163) "Tognazzini" 11      (083-01449) "Tognazzini" 12      (083-01450) "Tognazzini" 13      (083-01451) "Tognazzini" 315      (083-01400) "Tognazzini" 317-A (083-01410) "Tognazzini" 318-A (083-01411) "Tognazzini" 336      (083-01412) "Tognazzini" 337      (083-01413) "Tognazzini" 348-C (083-01414) "Tognazzini" 349      (083-01415) <u>Sec. 32, T. 9N, R. 31W S.B. B&amp;M (1)</u> "Gato-Tognazzini" 1 (083-21482)			
Description of the land upon which the well(s) is (are) located Cat Canyon Field, Santa Barbara County, CA			
Date of transfer, sale, assignment, conveyance, or exchange 11-01-2010	New Owner ERG Operating Company, LLC.	Operator code E0255	Type of Organization Corporation
	Address 600 Travis, Suite 7050 Houston, TX 77002		Telephone No. (713) 812-1800
Reported by ERG Operating Company, L.L.C.			
Confirmed by Venoco, Inc.			
New operator new status PA	Request Designation of Agent		
Old operator new status PA	Remarks Acquiring company has a blanket bond.		
Deputy Supervisor Patricia A. Abel		Signature 	

**OPERATOR STATUS ABBREVIATIONS**

PA - Producing Active	FORM AND RECORD CHECK LIST					
NPA - No Potential Active	Form or record	Initials	Date	Form or record	Initials	Date
PI - Potential Inactive	Form OGD121	CB	12-27-10	Map and Book		
NPI - No Potential Inactive	Well records	CB	12-27-10	Lease Files	CB	
Ab - Abandoned or No More Wells	New well cards			Well Stat	CB	12-28-10
PAA:cb	Bond Status			District Computer Files	CB	12-28-10
cc: ERG Operating Co. LLC	Annual Report	CB	12-27-10			
Venoco, Inc.						

Santa Barbara County  
Cons. Committee - Transfer File - Harold Bertholf - Helen Jan

OGD156 (Modified 1/00)

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RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES  
**REPORT OF PROPERTY AND WELL TRANSFER**

Field or county <b>Cat Canyon Field</b>		District: <b>3 - SANTA MARIA</b>	
Former owner <b>Gato Corporation</b>		Opcode:	Date <b>January 14, 2008</b>
Name and location of well(s)			
<u>Sec. 4, T. 8N, R. 32W S.B. B&amp;M</u>		<u>Sec. 9, T. 8N, R. 32W S.B. B&amp;M</u>	
Tognazzini 3 (083-01443)		Tognazzini 20 (083-01401)	
Tognazzini 4 (083-00344)		Tognazzini 23 (083-01403)	
Tognazzini 17 (083-01455)		Tognazzini 31 (083-01404)	
Tognazzini 20 (083-20008)		Tognazzini 42 (803-01406)	
		Tognazzini 51 (083-01407)	
<u>Sec. 9, T. 8N, R. 32W S.B. B&amp;M</u>		Tognazzini 1-A (083-01398)	
Tognazzini 1 (083-01440)		Tognazzini 1-W (083-01441)	
Tognazzini 2 (083-01161)		Tognazzini 21-A (083-01402)	
Tognazzini 3 (083-01399)		Tognazzini 2-B (083-01442)	
Tognazzini 6 (083-01445)		Tognazzini 3-A (083-01162)	
Tognazzini 7 (083-01446)			
Tognazzini 8 (083-01447)		<u>Sec. 10, T. 8N, R. 32W S.B. B&amp;M</u>	
Tognazzini 9 (083-01448)		Tognazzini 5 (083-01444)	
Tognazzini 14 (083-01452)		Tognazzini 52 (083-01408)	
Tognazzini 15 (083-01453)		Tognazzini 112 (083-01409)	
Tognazzini 16 (083-01454)		Tognazzini 32-B (083-01405)	
Tognazzini 18 (083-01456)		Tognazzini 43-A (083-01655)	
Description of the land upon which the well(s) is (are) located <b>Cat Canyon Field, Tognazzini Lease, Santa Barbara County, CA</b>			
Date of transfer, sale, assignment, conveyance, or exchange <b>12-7-07</b>	New Owner <b>Venoco, Inc.</b>	Operator code <b>V1150</b>	Type of Organization <b>Corporation</b>
	Address <b>6267 Carpinteria Avenue, Suite 100 Carpinteria, CA 93013</b>		Telephone No. <b>(805) 745-2100</b>
Reported by <b>Venoco, Inc.</b>			
Confirmed by <b>Gato Corporation</b>			
New operator new status (status abbreviation) PA	Request Designation of Agent		
Old operator new status (status abbreviation) Ab	Remarks <b>Includes 15 idle wells.</b>		

Deputy Supervisor  
**William E. Brannon**

Signature  
*William E. Brannon*

**OPERATOR STATUS ABBREVIATIONS**

PA - Producing Active	FORM AND RECORD CHECK LIST					
NPA - No Potential Active	Form or record	Initials	Date	Form or record	Initials	Date
PI - Potential Inactive	Form OGD121	pd	1-16-08	Map and Book	310	JC 3/15/08
NPI - No Potential Inactive	Well records	pd	1-16-08	Lease Files		
Ab - Abandoned or No More Wells	New well cards			Well Stat	pd	1-28
	Bond Status	pd/pa	1-16-08	District Computer Files		
cc:						
<b>Gato Corporation.</b>						

Santa Barbara County  
Conservation Committee  
Harold Bertholf

Transfer File  
HQ

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS

(805) 925-2686

REPORT OF WELL ABANDONMENT

Santa Maria, California

April 14, 1987

John F. Kiesser, Agent  
Gato Corp.  
3437 Crane Way  
Oakland, CA 94502

Your report of abandonment of well "Tognazzini" 17  
(Name and number)

A.P.I. No. 083-01455, Section 4, T. 8N, R. 32W, S.B. B. & M.,

Cat Canyon field, Santa Barbara County,

dated April 6, 1987 received April 14, 1987, has been

examined in conjunction with records filed in this office, and we have determined that all of  
the requirements of this Division have been fulfilled.

Date of environmental inspection: March 19, 1987.

PAT:ks

cc: Update

Sun Exp. & Prod. Co.

M. G. MEFFERD

State Oil and Gas Supervisor

By

K. P. Henderson  
Deputy Supervisor

K. P. Henderson

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DIVISION OF OIL AND GAS  
CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Company Gato Corp. Well No. "Tognazzini" 17  
API No. 083-01455 Sec. 4, T. 8N, R. 32W, S.B. B.&M.  
County Santa Barbara Field Cat Canyon

<u>RECORDS RECEIVED</u>	<u>DATE</u>
Well Summary (Form OGI00)	<u>4-13-87</u>
History (Form OGI03)	<u>4-13-87</u>
Core Record (Form OGI01)	
Directional Survey	
Sidewall Samples	
Other	
Date final records received	
Electric logs:	

<u>STATUS</u>	<u>STATUS</u>
Producing - Oil	<u>Abd</u> Water Disposal <input checked="" type="checkbox"/>
Idle - Oil	Waterflood
Abandoned - Oil	Steamflood
Drilling - Idle	Fire Flood
Abandoned - Dry Hole	Air Injection
Producing - Gas	Gas Injection
Idle - Gas	CO2 Injection
Abandoned - Gas	LPG Injection
Gas-Open to Oil Zone	Observation
Gas Storage	Waterflood Source
DATE <u>2-22-87</u> "E" well Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
RECOMPLETED	
REMARKS	

ENGINEER'S CHECK LIST

1. Summary, History, & Core record (dupl.) ☒
2. Electric Log ☒
3. Operator's Name ☒
4. Signature ☒
5. Well Designation ☒
6. Location ☒
7. Elevation ☒
8. Notices ☒
9. "T" Reports ☒
10. Casing Record ☒
11. Plugs ☒
12. Surface Inspection ☒
13. Production
14. E Well on Prod., enter EDP
15. Directional Survey

CLERICAL CHECK LIST

1. Location change (F-OGD165)
2. Elevation change (F-OGD165)
3. Form OGD121 4-14-87
4. Form OGI59 (Final Letter) 4-14-87
5. Form OGD150b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due (F-OGD170)
8. EDP (F-OGD42A-1, 2)

Type Final Letter AS  
Envir Inspec Compl 3-19-87

RECORDS NOT APPROVED

Reason:

RECORDS APPROVED

4-13-87 RE

RELEASE BOND

Date Eligible

(Use date last needed records were received.)

MAP AND MAP BOOK

TK 3-7-87

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS

API No. 083-01455

## WELL SUMMARY REPORT

Operator SUN EXPLORATION & PRODUCTION COMPANY (FOR GATO CORP)		Well TOGNAZZINI 17			
Field CAT CANYON		County SANTA BARBARA	Sec. 4	T. 8N	R. 32W B.&M. SB
Location (Give surface location from property or section corner, street center line and/or California coordinates)			Elevation of ground above sea level		
289'N & 743.38'E FROM NE COR OF LOS ALAMOS RANCH			1321'		

Commenced drilling (date) P&A 2-19-87	Total depth			Depth measurements taken from top of:	
	(1st hole) 3501'	(2nd)	(3rd)	<input type="checkbox"/> Derrick Floor	<input type="checkbox"/> Rotary Table <input checked="" type="checkbox"/> Kelly Bushing
Completed drilling (date) P&A 3-27-87	Present effective depth 3501'			Which is +10 feet above ground	
Commenced producing (date) N/A	Jank Plugs 3500' - 2653' 1750' - 1527' 570' - 5'±			GEOLOGICAL MARKERS	
<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas lift				DEPTH	
Name of producing zone(s)  MONTEREY				TOP OF PAY 2753'  Formation and age at total depth MONTEREY (MIOCENE)	

	Clean Oil (bbl per day)	Gravity Clean Oil	Percent Water Including emulsion	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production	N/A					
Production After 30 days	N/A					

CASING RECORD (Present Hole)								
Size of Casing (API)	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	New or Second Hand	Size of Hole Drilled	Number of Sacks or Cubic Feet of Cement	Depth of Cementing (if through perforations)
8 5/8"	SURFACE	1700'	32# & 38#	"D"	S.H.	12 1/4"	200SX	
6 5/8"	1683'	3501'	24#	J-55	NEW	7 5/8"	-	

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

PERFS: 2753' - 3379' /

Was the well directionally drilled? If yes, show coordinates at total depth

☐ Yes ☒ No

Electrical log depths

E-LOG TO 1696'

Other surveys

NONE

In compliance with Sec. 3215, Division 3 of the Public Resources Code, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Name F. F. ARMIJO		Title OPERATIONS MANAGER	
Address P.O. BOX 55060		City VALENCIA, CA	Zip Code 91355-0560
Telephone Number (805) 257-6200	Signature F. F. Armijo	Date 4/6/87	57

SUBMIT IN DUPLICATE



SUBMIT IN DUPLICATE  
RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
**DIVISION OF OIL AND GAS**

**History of Oil or Gas Well**

Sun Exploration and Production Company  
Operator.....Sun Production Division.....Field or County.....Cat. Canyon.....  
Well.....Tognazzini #17....., Sec. 4....., T. 8N....., R. 32W....., SB. B. & M.  
A.P.I. No.....083-01455.....Name.....F. E. ARMIJO.....Title.....Agent.....  
Date.....4-8, 1987.....(Person submitting report).....(President, Secretary or Agent)

Signature.....*F. E. Armijo*.....  
Box 55060, Valencia, California 91355-0560.....(805) 257-6200.....  
(Address).....(Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1987	
2/20	(P&A FOR GATO CORP)/TD 3501/8-5/8" 32# & 38# CSG @ 1700/6-5/8" 24# SLOTTED LNR @ 1685-3501/SLOTS 2753-3379/BROWN & BUFF ZONE/THIS WELL IS OWNED BY "GATO CORP" AND SUN E&P IS TO P&A THE WELL/ MIRU WELLTECH RIG #142/BLEED DN WELL/INST CL II BOP & TST TO 500 PSI/UNLAND DONUT & SHEAR PKR/POH, ONLY HAD 2 1/2' OF 2-3/8" TBG BELOW PKR/LD PKR/RIH w KILL STG & SIFN/
2/21	PICK UP 1900' OF 2 3/8" TBG W/SAW TOOTH COLLAR ON BTM/RIH W/2 3/8" AND 2 7/8" TBG TO 3501'TD/CIRC. OUT 5 BBLS THICK OIL/CIRC HOLE CLEAN/B.J. PMP 95 CF CLASS "G" CMT AND DISP. W/92 CF WTR/PULL TO 3012'/B.S. CLEAN/B.J. PMP 95 CF CLASS "G" CMT AND DISP. W/76 CF WTR/PULL TO 2428', B.S. CLEAN/W.O.C./RIH, TAG CMT @ 2655', OK BY DOG/SPOT 31 BBLS 88# MUD FRM 2653' TO 1750'/PULL TO 1750'/B.J. PMP 75 CF CLASS G CMT W/2% CaCl <sub>2</sub> AND DISP. W/40 CF WTR/W.O.C./
2/22	W.O.C./RIH, TAG CMT. @ 1527', OK BY DOG (R. BRONETH)/SPOT 57 BBLS OF 88# MUD FRM 1527' TO 570'/POH, LAY DOWN EXCESS TBG/RIG UP McGOWEN, SHUT 10' CAVITY SHOT FRM 575' TO 565', LOST 10 BBLS WTR/B.J. PMP IN 2 STAGES, 210 CF CLASS G CMT/P.O.H. LAY DN TBG/CMT FELL BACK/B.J. PMP 80 CF CLASS G CMT TO SURFACE, CMT FALLING BACK/WAIT 1 1/2 HRS/B.J. PMP 57 CF CLASS G CMT TO SURFACE, CMT STAYED @ SURFACE/OK BY C.D.O.G. (R. BRONETH)/ SANTA BARBARA, PET DEPT. WAIVED WITNESSING SURFACE AS LONG AS C.D.O.G. WAS THERE/ RELEASE RIG @ 6:00 PM 2-21-87/DROP FROM REPORT PENDING SURFACE CLEAN UP IS COMPLETE/
3/28	DROPPED FROM REPORT ON 2-22-87/CUT OFF WELLHEAD/WELD ON PLATE 5' BELOW GROUND LEVEL/RESTORE LOCATION AND ABANDON ALL SURFACE LINES AS PER D.O.G. AND SANTA BARBARA CO. PET. DEPT./ALL APPROVED BY ROSE BRUNETTI OF THE D.O.G. ON 3-19-87/ALL APPROVED BY JOHN GILLILAND OF THE SANTA BARBARA CO., PET. DEPT. ON 3-27-87/ <u>FINAL REPORT</u> /

Map No.	Map Label	Bond No.	Pages		
			116	114	111
					4-87 MFM

DIVISION OF OIL AND GAS  
RECEIVED  
APR 14 1987  
SANTA MARIA, CA

DIVISION OF OIL AND GAS

Report on Operations

John F. Kieser, Agent

Gato Corporation

3437 Crane Way

Oakland, CA 94502

Santa Maria

Calif.

March 2, 1987

Your operations at well "Tognazzini" 17, API No. 083-01455,  
Sec. 4, T8N, R. 32W S.B. B. & M. Cat Canyon Field, in Santa Barbara County,  
were witnessed on 2-24-87 by T. Kustic, representative of  
the supervisor, was present from 0830 to 0850. There were also present J. Incardone -  
Drilling Foreman

Present condition of well: 8-5/8" cem. 1700' Co. W.S.O., holes @ 413' (cem. off), cavity  
shot @ 570' casing bowl @ 108'; 6-5/8" ld. 1683'-3501', perfs. 2753'-3379'.  
T.D. 3501'. Plugged w/cem. 3500'-2653', 1750'-1527', and 570'-5'+.

The operations were performed for the purpose of plugging the well in the process of abandonment.

DECISION: THE PLUGGING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

3/19/87 Final stc insp  
100. levelled & backfilled  
truck & crew picking up  
last of junk  
OK  
BS

TK:ks

M. G. MEFFERD

By KP Henderson

K. P. Henderson



DIVISION OF OIL AND GAS  
Cementing/Plugging Memo

387-26 *HW*

Operator Gato Corporation ✓ Well No. "Tomazzini" 17 ✓  
 API No. 083-01455 ✓ Sec. 4, T. 8N, R. 32W, S. B B&M ✓  
 Field Cat Canyon ✓, County Santa Barbara ✓. On Feb 24, 1987 ✓  
 Mr. J. Kustic ✓, representative of the supervisor was present from 0830 to 0850.  
 There were also present J. Incardone, Drilling Foreman ✓ *Casing ball 108'*  
 Casing record of well: 8 5/8" cem. 1700' to 30', holes 413' (cem off), cavity shot 570' ✓  
6 5/8" lde. 1683-3501, perf. 2753'-3379'. T.D. 3501'. Plugged w/ cem ✓  
3500'-2653', 1750'-1527', & 570'-54' ✓

The operations were performed for the purpose of plugging the well in the process  
of abandonment.

☒ The plugging/cementing operations as witnessed and reported are approved.

☐ The location and hardness of the cement plug @ \_\_\_\_\_' is approved.

Hole size: \_\_\_\_\_" fr. \_\_\_\_\_' to \_\_\_\_\_', \_\_\_\_\_" to \_\_\_\_\_' & \_\_\_\_\_" to \_\_\_\_\_'

Casing				Cemented			Top of Fill		Squeezed Away	Final Press.	Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Casing/tubing recovered: 8 5/8" cavity 6" x 10' torpedos  
" shot/cut at 570', \_\_\_\_\_' pulled fr. \_\_\_\_\_';  
" shot/cut at \_\_\_\_\_', \_\_\_\_\_' pulled fr. \_\_\_\_\_'.

Junk (in hole): \_\_\_\_\_

Hole fluid (bailed to) at \_\_\_\_\_'. Witnessed by \_\_\_\_\_

Mudding	Date	Bbls.	Displaced	Poured	Fill	Engr.
w 88 gal 19/44	2/21	30	Hg @ 2643			
pk 5 *	✓	✓	✓ 1520		return	PRB

\* Mud report: Stanford Turner Santa Maria Mud

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt./Sample	Date & Time	Engr.
2/24/87	94	Hg @ 3500'	Rept by J. Mayo	3008±	(calc)			
✓	94	✓ 3014	✓	✓	2653	5000#	0010 2/21	PRB
2/21/87	75	✓ 1750	✓ J. Incardone	1527	✓		0915 ✓	✓
✓	258 total	✓ 570' & 187	1240-1530	PRB	Return (then Fall)			

137 cf sfc pour Rept by J. Incardone 2' visual TK 0850 2/24/87

cc Shayne M&B 310 \* 5/7/87 TK

5A (2)



Sun Production  
Operations Division  
Western District

28  
Sun Exploration and  
Production Company  
25322 W Rye Canyon Road  
Box 55060  
Valencia CA 91355 0560  
805 257 6200

January 29, 1987

Division of Oil and Gas  
301 West Church Street  
P. O. Box 227  
Santa Maria, CA 93456

Attention: Ken Henderson

In response to your request for information regarding a casing squeeze in the Tognazzini #17 well, Sun has acquired the well file from the Gato Corporation, the current lease operator.

The procedure and wellbore diagram are attached, along with a D.O.G. Notice to Rework and a D.O.G. Well History (original copy in file). There was no D.O.G. Permit to Conduct Operations in the file, however.

This is the only information that Sun possesses regarding the casing squeeze of 12/76 in Tognazzini #17. If any additional information is obtained, it will be forwarded to you as soon as possible.

If you have any additional questions, please call me at (805) 257-6270.

Very truly yours,

  
Diana L. Visser

jg

Attachments

cc: F. E. Armijo  
L. W. Johnson  
W. G. Elmer  
J. M. Sherman

DIVISION OF OIL AND GAS  
RECEIVED  
FEB 5 1987  
SANTA MARIA, CA



P3/698

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# PERMIT TO CONDUCT WELL OPERATIONS

(field code)

(area code)

(new pool code)

(old pool code)

WATER DISPOSAL PROJECT

CAT CANYON

GATO RIDGE AREA

MONTEREY ZONE

John F. Kieser, Agent

Gato Corp.

3437 Crane Way

Oakland, CA 94502

Santa Maria, California

January 23, 1987

Your \_\_\_\_\_ proposal to \_\_\_\_\_ abandon \_\_\_\_\_ well "Tognazzini" 17 \_\_\_\_\_,  
A.P.I. No. 083-01455 \_\_\_\_\_, Section 4 \_\_\_\_\_, T. 8N \_\_\_\_\_, R. 32W \_\_\_\_\_, S.B. B. & M.,  
Cat Canyon \_\_\_\_\_ field, \_\_\_\_\_ area, \_\_\_\_\_ pool,  
Santa Barbara County, dated 1-17-87 \_\_\_\_\_, received 1-20-87 has been examined in conjunction with records  
filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Blowout prevention equipment conforming to Class II 2M requirements is installed and maintained in operating condition at all times.
2. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of 88 lbs./cu. ft. and a minimum gel-shear strength (10 min.) of 20 lbs./100 sq. ft.
3. The 8 5/8" casing is squeeze-cemented through perforations at 570 feet with at least 40 cubic feet of cement, or by placing a cement plug across a cavity shot at that depth. In either case, cement fill inside the casing must be to at least 100 feet above the perforations or cavity shot.
4. THIS DIVISION IS NOTIFIED:
  - a. To witness the location and hardness of the cement plugs at 2653' or higher, 1583' or higher, and at 470' or higher.
  - b. To witness the mudding of the well.
  - c. To witness the placing of the surface plug or to verify its location.
  - m. To inspect and approve the clean-up of the well site before approval of abandonment will be issued.

No Bond on File

AJK:mjn

cc: Sun Oil Co.  
Project File

Engineer Al Koller

Phone (805) 925-2686

M. G. MEFFERD, State Oil and Gas Supervisor

By KP Henderson  
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

STATE OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
**DIVISION OF OIL AND GAS**

**Notice of Intention to Abandon Well**

This notice must be given at least five days before work is to begin.

*No Bond on file*

FOR DIVISION USE ONLY			
CARDS	BOND	FORMS	
		OGD114	OGD121
<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>

**DIVISION OF OIL AND GAS**

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon well Tognazzini #17, API No. 083-01455, Sec. 4, T. 8N, R. 32W, SB B. & M., Cat Canyon Field, Santa Barbara County, commencing work on January 20, 1987

The present condition of the well is: STG

1. Total depth: 3501'
2. Complete casing record, including plugs and perforations:

See Attachments

3. Last produced N/A  
(Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)
- or
4. Last injected 7/1/84 316 N/A 780  
(Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)

The proposed work is as follows:

See Attachments

(SUN EXPLORATION AND PRODUCTION COMPANY WILL SUPERVISE WORK)

Additional data for dry hole (show depths)

5. Oil or gas shows

6. Stratigraphic markers:

7. Formation and age at total depth: None

8. Base of fresh water sands:

DIVISION OF OIL AND GAS  
RECEIVED

JAN 20 1987

SANTA MARIA, CA

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 523 West 6th Street, Suite 716  
(Street)  
Los Angeles CA 90014  
(City) (State) (Zip)  
Telephone Number (213) 620-1307  
(Area Code) (Number)

GATO CORPORATION

By JOHN KIESER  
(Name of Operator)  
[Signature] 1-17-87  
(Signature) (Date)

# RECOMMENDED WORK PROCEDURE Sun-5036-3-C

WELL NAME Tognazzini #17		FIELD NAME Cat Canyon		COUNTY Santa Barbara	STATE CA	
PERMANENT ZERO POINT KB @ 8' AGL		UPPERMOST PLUG TD @ 3501'		RETAINER -		
CASING	SIZE & WEIGHT PROD 8-5/8" 32#, 38#	DEPTH SET 1700'	PACKER DEPTH (TOP) & TYPE (1) Baker 'R' (2) @ 1675'	(3)	LOG	
	SIZE, WEIGHT, GRADE, ETC. 2-7/8" 6.5#, 2-3/8" 4.7#	DEPTH SET 3003'				
TUBING	2-7/8" 6.5#, 2-3/8" 4.7#	DEPTH SET 1683-3501'	TOP OF CEMENT BEHIND PROD CSG. CALCULATED 1118'		LOG -	
		DEPTH SET 1683-3501'	PERFS 2753-3379'			
Lnr: 6-5/8" 24# J-55						

## PROCEDURE

## RIG TIME

- MIRU prod rig and Baker tank. Bleed off tbg pressure (300 PSI on 12/24/86) by backflowing well into tank. If press will not bleed off, pump 10 PPG mud dwn tbg to kill well. Also, fill backside w/ 10 PPG mud (88 Bbl). Install Class II 2M BOPE and test. Attempt to release pkr w/ straight pull. If it will not release, pins should shear between 50,000 - 70,000#. POH w/ pkr and  $\pm 1660'$  of 2-7/8" 6.5# tbg and  $\pm 1340'$  of 2-3/8" 4.7# tbg. If tbg is in good cond, use as WS and add an additional 500' of 2-7/8" 6.5# J-55 tbg.

NOTE: Pkr is either a Mod 'R' or a Mod 'AD-1' (different records). A straight pull will release the 'R', while the 'AD-1' requires pin shearing.

- MU & RIH w/ 2-3/8" muleshoe collar on bottom of WS to TD @ 3501'. If fill is encountered, circulate out to TD.
- MIRU cementers. Spot a 860' balanced cmt plug in stages from TD @ 3501' to 2641' w/ 190 cu ft (15% excess) Class 'G' cmt. Displace w/ 15 Bbls mud. PU to 2300' and reverse circulate 27 Bbls mud. POH. Contact DOG @ (805) 925-2686. WOC 4 hrs.
- MU & RIH w/ muleshoe collar on btm of WS and tag TOC @  $\pm 2641'$ .
- PU to 1750' and spot a 200' balanced cmt plug from 1750' to 1550' w/ 60 cu ft Class 'G' cmt w/ 2% CaCl<sub>2</sub>. Displace w/ 10 Bbls mud. PU to 1200' and reverse circ 14 Bbls mud. POH. Contact DOG. WOC 4 hrs.
- MU & RIH w/ WS and tag TOC @  $\pm 1550'$ . PU to 500' and spot a 300' balanced plug frm 500' to 200' w/ 110 cu ft Class 'G' cmt w/ 2% CaCl<sub>2</sub>. Displace w/ 2 1/2 Bbls mud. PU to 200' and reverse circulate 3 Bbls mud. Lay a plug from 200' to 5' below surface w/ 68 cu ft Class 'G' cmt w/ 2% CaCl<sub>2</sub>. POH w/ 2-3/8" tbg. Contact D.O.G. RDMO cementers & WO rig.
- Cut 8-5/8" csg 5' below surface. Remove cellar and lines, and clear location. Weld on plate and marker. Contact D.O.G. Backfill location.

## CAPACITIES:

8-5/8" 32# csg - 0.3422 CF/F; 0.0609 B/F  
 6-5/8" 24# csg - 0.1912 CF/F; 0.0340 B/F  
 2-7/8" 6.5# tbg - 0.0325 CF/F; 0.00579 B/F  
 2-3/8" 4.7# tbg - 0.02171 CF/F; 0.00387 B/F

50



## WELL COMPLETION SKETCHES SUN-6036-4-A

WELL

TOGNAZZINI # 17

FIELD

CAT CANYON

DATE

4 Nov 86

☒ PRESENT COMPLETION☐ SUGGESTED COMPLETION

## PERMANENT WELL BORE DATA

## DATA ON THIS COMPLETION

12 1/4" HOLE TO 1700'

8 5/8" 32 #, 38 # "D" CSG

@ 1700' CMTD W/ 200 SX.

EST TOC @ 1118'

8 5/8" PARTED @ 91' CUT @

108' &amp; RFLANDED NEW

CSG @ 108' CMTD W/

160 SX. (OCCURRED

WHILE DRILG 7 5/8" HOLE).

CSG LEAK @ 413'. SIZED

W/ 150 SX. (12/76)

7 5/8" HOLE TO 3501'.

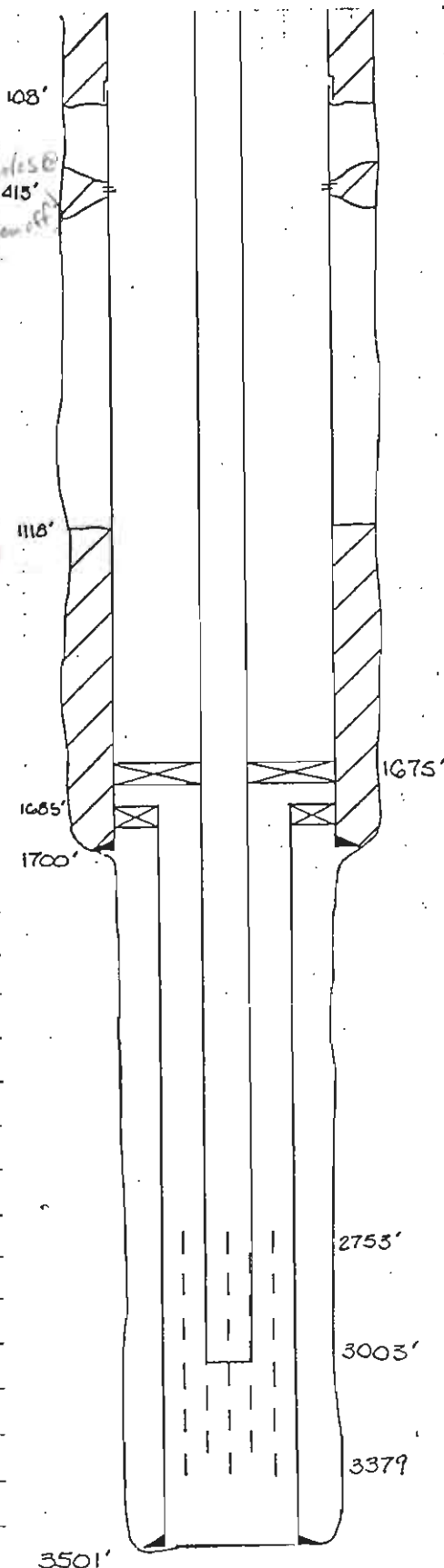
6 5/8" 24 # J-55 LNR @ 1683'

3501'. SLOTTED @

2753'-3379' W/

400M x 2" x GR x 6"

TD @ 3501'



KB- 8' AGL

2 7/8" 6.5 # TBG TO PKR @ 1675'

8 5/8" BAKER MOD "R"

PKR @ 1675'. (7/23/72)

NOTE: WAS LISTED @

1658' ON 12-8-81.

2 3/8" 4.7 # TBG FRM 1675'-

3003'.

W.S.O. @ 1700'.

49

DLV

## WELL COMPLETION SKETCHES SUN-5036-4-A

WELL #17 TOGNAZZINI FIELD CAT CANYON DATE 4 Nov 86

☐ PRESENT COMPLETION

☒ SUGGESTED COMPLETION

## PERMANENT WELL BORE DATA

## DATA ON THIS COMPLETION

12 1/4" HOLE TO 1700'

8 5/8" 32", 38" D" CSG

@ 1700' CMTD W/ 200 SX.

EST TOC @ 1118'

8 5/8" PARTED @ 91' CUT @

108' &amp; RELANDED NEW

CSG @ 108' CMTD W/

160 SX. (OCCURRED

WHILE DRILLING 7 5/8" HOLE).

CSG LEAK @ 413'. SQZ'D

W/ 150 SX. (12/76)

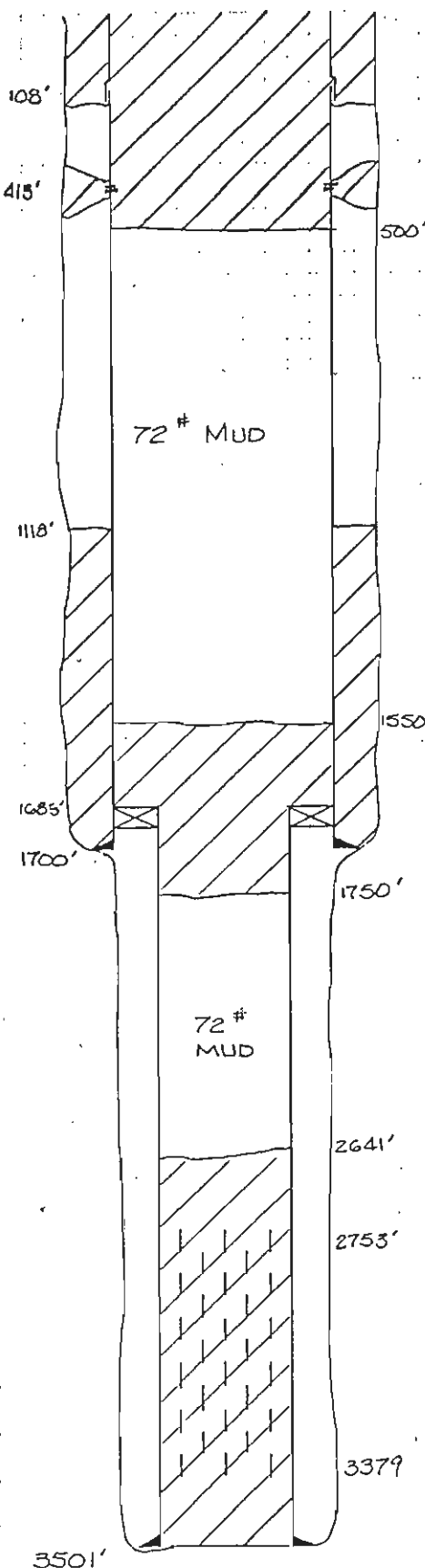
7 5/8" HOLE TO 3501'.

6 5/8" 24" J-55 LNR @ 1683'

3501'. SLOTTED @

2753'-3379' W/

400M X 2" X GR X G"



KB- 8' AGL

CMT PLUG @ ± 500' TO

SURF

NO FRESHWATER SANDS

TOC @ ± 1550'

BTM OF CMT PLUG @ ± 1750'

TOC @ ± 2641'

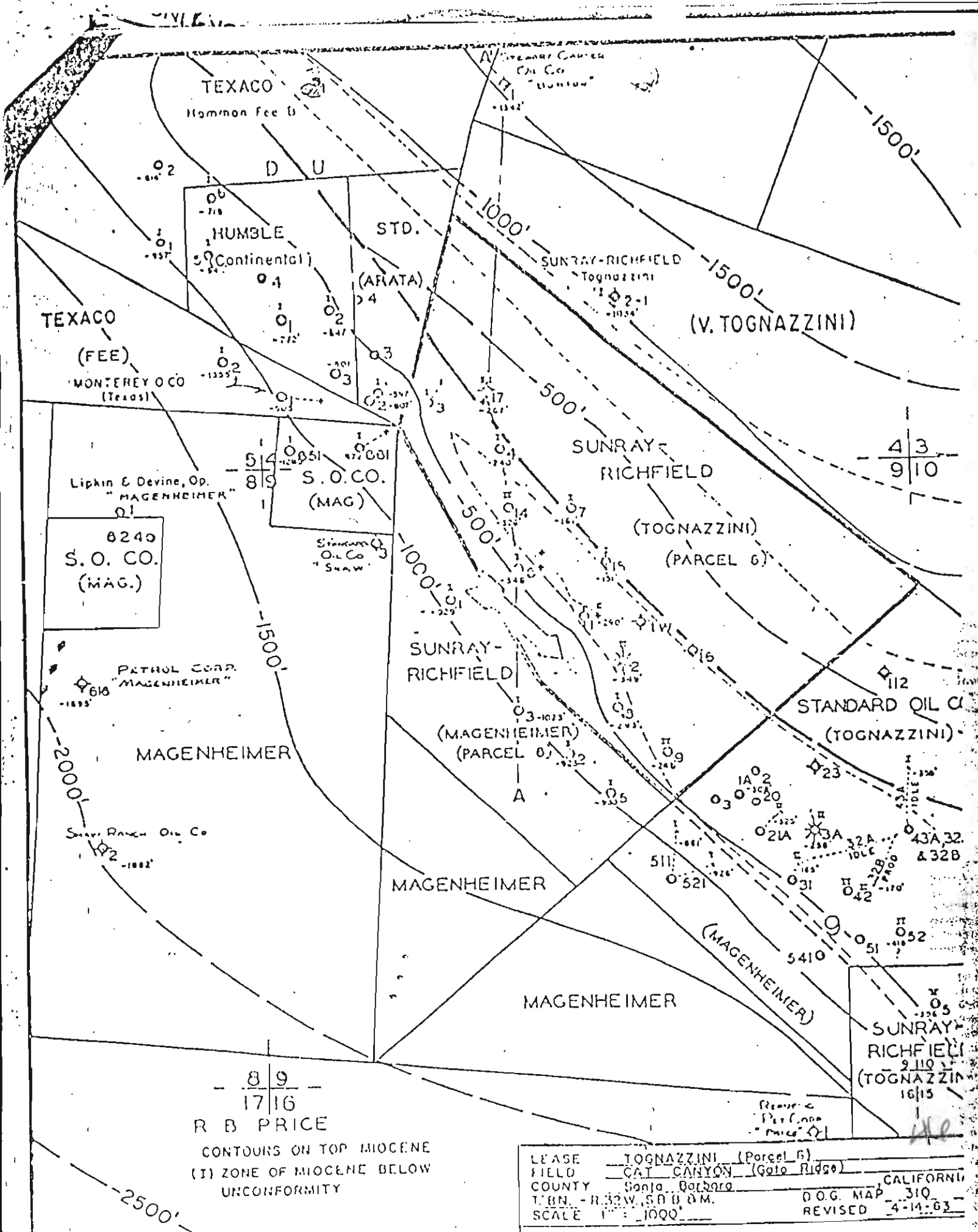
TD @ 3501'

RLV

WELL HISTORY

TOGNAZZINI #17

- 7/16/46: WELL SPURRED IN
- 8/18/46: WELL COMPLETED
- 8/21/46: FIRST PRODUCTION
- 7/22/72: CONVERSION TO WATER INJECTION
- 6/24/76: WATER SHUT OFF TEST  
(OPERATIONS NOT APPROVED, INJECTION FLUID CONFINED TO  
FORMATION BELOW 2753')
- 9/9/76: WATER SHUT OFF TEST  
(OPERATIONS APPROVED; INJECTION FLUID BELOW 1700')
- 11/28/79: WATER SHUT OFF TEST  
(OPERATIONS APPROVED; INJECTION FLUID BELOW 2753')
- 12/8/81: WATER SHUT OFF TEST  
(OPERATIONS APPROVED; INJECTION FLUID BELOW 1700')
- 6/21-7/3/84: PRESSURE FALL-OFF SURVEY  
(AQUIFER HAS REACHED FILL-UP)
- 8/8/84: INJECTION CEASED



## DIVISION OF OIL AND GAS

January 8, 1987

STATE OF CALIFORNIA • RESOURCES AGENCY • DEPARTMENT OF CONSERVATION •

Attn: F. E. Armijo:  
Sun Exploration & Production Co.

Re: "Tognazzini" 17

The attached Abandonment Notice (OG108) cannot be processed because our records show Gato Corporation as the current operator.

If you have any questions, please contact K. P. Henderson at (805) 925-2686.

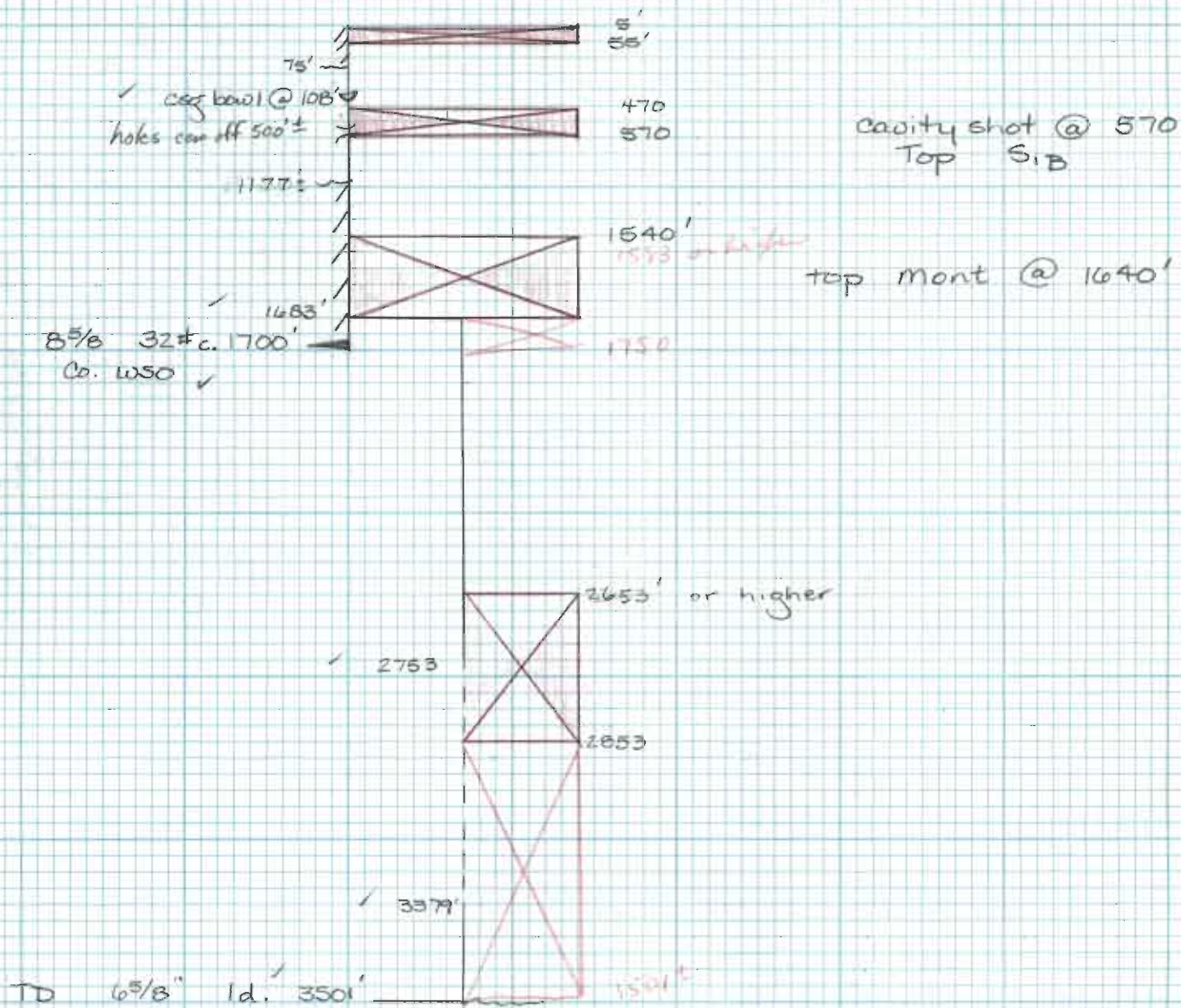
Thank you,

Mary Jane Niccoli  
Division of Oil and Gas  
P. O. Box 227  
Santa Maria, CA 93456

OG15 (6-82-DWRR-10M)

45





Abandonment Proposal in Bed  
"Tognazzini" 17  
Gato Corp. Cat Canyon  
4-22-86



R. Brunetti  
A. Davis Consultant.  
T. McClean " "

Fato Corp.  
"Lognazzini" 17  
Sec. 4-8N-32W  
Cat Canyon  
1/23/45

Flow period (draw down)

Time (min)	Pressure (psig)	Type fluid
0	540	oil
1	140	
2	160	
3	30	oil & water 50-50% (water has Fluorescein dye)
5	25	oil
6	25	
7	125	
8	160	oil
9	190	
10	210	
12	240	oil
13	20	
15	20	
17	20	" " "
19 thru 27	15	" " "
29 thru 53	12	" " "

Total volume Fluid  $\approx$  1 bbl

Shut in for pressure build-up

Gato Corp.  
"Tognazzini" 17

1/23/85

- 1/24/85

Shut in period

Time (min) Pressure

0 12

0:30 45

1:00 55

1:30 65

2:00 80

2:30 85

3:00 100

3:30 105

4:00 115

4:30 120

5:00 125

5:30 135

6:00 140

7 155

8 165

9 175

10 185

15 225

20 255

25 285

30 310

130 440

150 450

Time Pressure

180 465

210 480

21 1/2 hrs 520



Gato Corp. "Tognazzini" 17 Pressure Draw-down 1/23/85

Pressure  
(psig)

600

500

400

300

200

100

0

5

10

15

20

25

30

35

40

45

50

Time (min)

shut in

re-open



Gato Corp. "Tognazzini" 17

Pressure Build-up. 1/23/85-1/24/85

Pressure  
(psig)

After 22 hrs  
520 psi

500

400

300

200

100

0

Time (min)

10

20

30

40

50

60

70

80

90

100

110

120

130

140

150

160

170

180

190

200

210

40

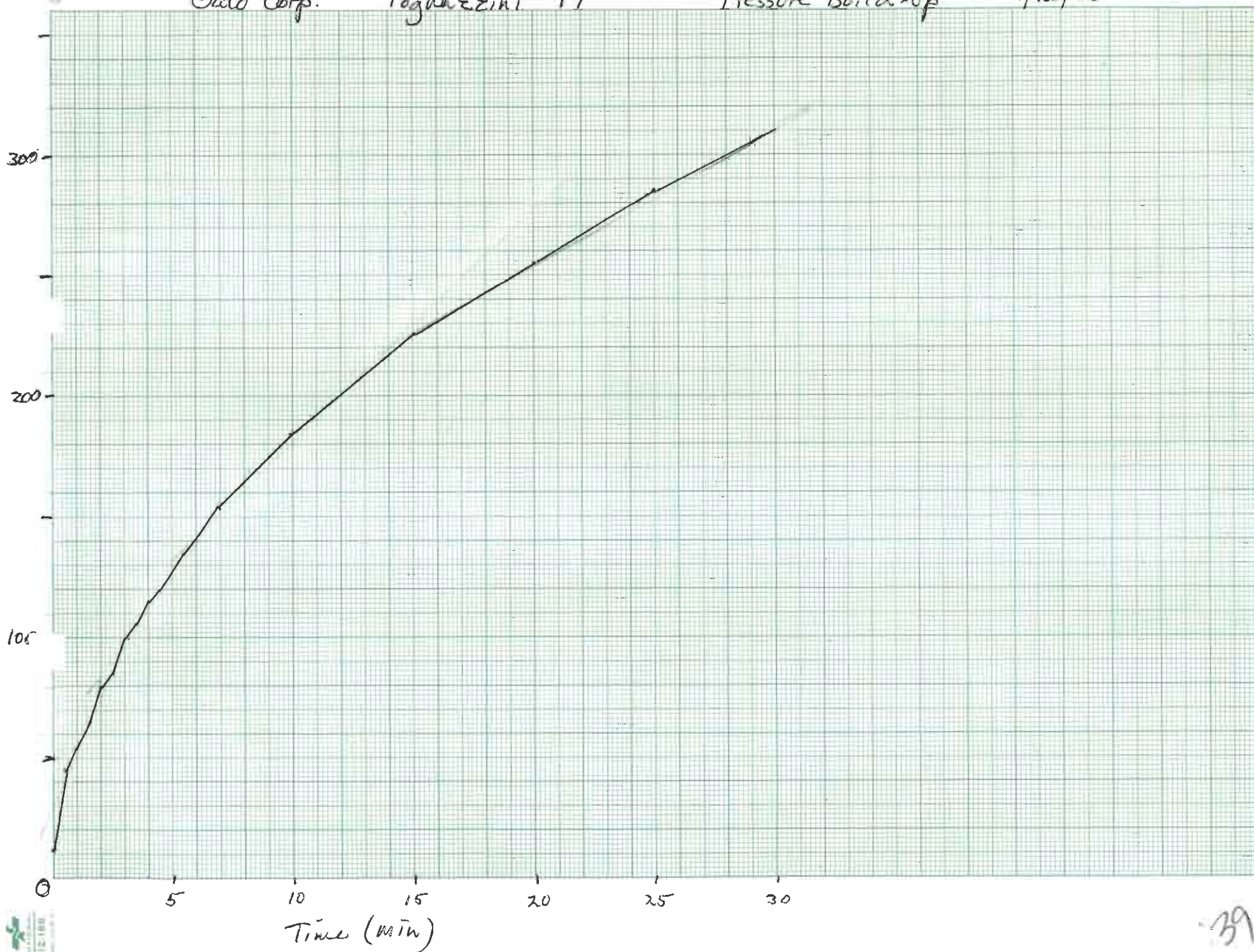




Gato Corp. "Tognazzini" 17

Pressure Build-up

1/23/85



**GATO CORPORATION**

Oil and Gas Development

P.O. BOX 759  
SANTA MARIA, CALIFORNIA 93456  
(805) 928-8253

DIVISION OF OIL AND GAS  
RECEIVED

AUG 15 1984

Santa Maria, California

August 13, 1984

Division of Oil & Gas  
P.O. Box 227  
Santa Maria, Ca. 93456

Attn: Mr. K.P. Henderson


Re: "Tognazzini" 17  
(083-01455)  
Monterey Zone

Gentlemen:

This will confirm that, pursuant to your letter to us of July 5, 1984, all injection into the above referenced well has been ceased, effective August 8, 1984.

Injection lines to the well have been disconnected, as instructed by your office.

Sincerely yours,

  
Donn V. Tognazzini  
President

DVT/hs

38

gm ✓  
sc ✓

## DEPARTMENT OF CONSERVATION

## DIVISION OF OIL AND GAS

301 WEST CHURCH STREET, P. O. BOX 227

SANTA MARIA, CALIFORNIA 93456

(805) 925-2686



July 5, 1984

John F. Kieser, Agent  
Gato Corporation  
3437 Crane Way  
Oakland, CA 94502

## EXCESSIVE ZONE PRESSURE

"Tognazzini" 17

(083-01455)

Sec. 4, T.8N, R.32W, S.B.B&amp;M

Monterey Zone

Gato Ridge Area

Cat Canyon Field

Dear Mr. Kieser:

A pressure fall-off survey on the above-captioned well from June 21 through July 3, 1984 indicates that the injection zone pressure is above hydrostatic pressure.

Static zone pressure in the project area must not exceed hydrostatic pressure as stated in paragraph five of our letter dated February 22, 1983 authorizing continued operation of the water disposal project. As it appears that this aquifer has reached fill-up in the general area of the well, approval to inject water into this well granted in report No. P372-252 dated July 27, 1972 is hereby rescinded effective August 8, 1984.

Injection lines to the well are to be disconnected and the division is to be notified accordingly.

Very truly yours,

K. P. Henderson  
Deputy Supervisor

KPH:df

cc: Santa Maria office

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Tognazzini 17

Sun Ray  
Jay Toops  
259-0910  
Call Z 257 6303  
Vicki

## Pressure Falloff Statistics

injection pressure

on tbg 940 psi

on csg 0 psi

initial shut in pressure 900 psi @ 0950 6/21/84

✓ 6/21/84

0951 940 psi

0955 930 psi

1000 925 psi

1010 920 psi

1020 920 psi

1035 910 psi

6/22/84

0940 763 psi

6/25/84

0900 740 psi

6/26/84

1400 740 psi

✓ 7/3/84

1500 720 psi

DIVISION OF OIL AND GAS

Report on Operations

(805) 925-2686

John F. Kieser, Agent

Gato Corporation

3437 Crane Way

Oakland, CA 94502

Santa Maria

Calif.

December 14, 1981

Your operations at well "Tognazzini" 17, API No. 083-01455  
Sec. 4, T. 8N, R. 32W, SB B. & M. Cat Canyon Field, in Santa Barbara County,  
were witnessed on 12-8-81 D. Clark representative of  
the supervisor, was present from 1010 to 1215 There were also present K. Burger -  
Consultant

Present condition of well: 8 5/8" cem. 1700' W.S.O.; 6 5/8" ld. 1683' - 3501', perfs.  
2753' - 3379'. T.D. 3501'.

The operations were performed for the purpose of demonstrating that all the injection fluid  
is confined to the intended zone.

DECISION: THE OPERATIONS ARE APPROVED AS INDICATING THAT ALL OF THE INJECTION FLUID  
IS CONFINED TO FORMATIONS BELOW 1700' AT THIS TIME.

DRC:dv

M. G. MEEFERD  
State Oil and Gas Supervisor  
By *John L. Zulberti*  
John L. Zulberti  
Deputy Supervisor



## DIVISION OF OIL AND GAS

no/Temp Survey WATER SHUT-OFF TEST

No. T

381-317

Operator Gata Corp.Well name and no. "Tognazzini" 17 Sec. 4, T. 8N, R. 32, SB B&MField Cat Canyon, County Santa Barbara was tested for water shut-off on 12-8-81, Mr. D. Clark, representative of the supervisor was present from 1010 to 1215. There were also presentKeith Burger - ConsultantCasing record of well: 8 5/8" cem. 1700' W.S.O.; 6 5/8" Id. 1687' - 3501', perfs. 2753' - 3379'. T.D. 3501'The operations were performed for the purpose of demonstrating that all the injection fluid is confined to the intended zone.☐ The \_\_\_\_\_ " shut-off at \_\_\_\_\_ ' is approved.☐ The seal between the \_\_\_\_\_ " and \_\_\_\_\_ " casings is approved.☒ The operations are approved as indicating that all of the injection fluid is confined to the formations below 1700 ' at this time.

Hole size: \_\_\_\_\_ " fr. \_\_\_\_\_ ' to \_\_\_\_\_ ', \_\_\_\_\_ " to \_\_\_\_\_ ' &amp; \_\_\_\_\_ " to \_\_\_\_\_ '.

Casing				Cemented			Top of Fill		Sqd. Away	Final Press	Test psi/min. Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Depth or interval tested \_\_\_\_\_

The hole was open to \_\_\_\_\_ ' for test.

## FORMATION TEST:

Packer(s) \_\_\_\_\_ ' &amp; \_\_\_\_\_ ' Tail \_\_\_\_\_ ' Bean size \_\_\_\_\_ " Cushion \_\_\_\_\_

IHP \_\_\_\_\_ IFP \_\_\_\_\_ FFP \_\_\_\_\_ FHP \_\_\_\_\_

Blow \_\_\_\_\_

Open for test \_\_\_\_\_ Hr. \_\_\_\_\_ min. Fluid entry \_\_\_\_\_

## BAILING TEST:

The hole fluid was bailed to \_\_\_\_\_ ', at \_\_\_\_\_ on \_\_\_\_\_ 19\_\_.

The hole fluid was found at \_\_\_\_\_ ', at \_\_\_\_\_ on \_\_\_\_\_ 19\_\_.

(time)

## PRODUCTION TEST:

Gauge/meter reading \_\_\_\_\_ on \_\_\_\_\_ 19\_\_, at \_\_\_\_\_ pump depth \_\_\_\_\_ ' Engr. \_\_\_\_\_

Gauge/meter reading \_\_\_\_\_ on \_\_\_\_\_ 19\_\_, at \_\_\_\_\_ Engr. \_\_\_\_\_

Fluid level \_\_\_\_\_ ' surveyed on \_\_\_\_\_ 19\_\_, reviewed (witnessed) by \_\_\_\_\_

Total fluid produced, Bbls. \_\_\_\_\_ Net oil \_\_\_\_\_ Water \_\_\_\_\_

Rate: \_\_\_\_\_ B/D oil, \_\_\_\_\_ B/D water, \_\_\_\_\_ % water cut

## INJECTION SURVEY:

RA/Spinner/Temperature survey run at 2016 B/D & 875 psi on 12-8 1981, fluid confined below 1700 ' (Packer depth 1658 ')Flow log - 1653  
Top half - 2753LL 3392' Temp. survey showing major cooling @ ~ 2755 (top perf.) Background - goodTop perf. slug out @ 2700; wait 300 sec., log down 2700-2725 OK, Packer ck background (1725-1600) OKOGD8 (10-78-GSRI-5M) Packer ck. Slug out 1625; wait 300 sec. Log down 1925 OK (over)

## Velocity Check

<u>Depth (')</u>	<u>time (sec.)</u>	<u>Rate (b/o)</u>
2600	26	375
* 2800	53	184
2925	38	256
2950	50	195
3000	54	180
3050	—	0
3075	—	0
3100	—	0

\* Slug out @ 2775 log up from 2800 - 2750 (3x) rate = 0

## Tubing Rates

		<u>T</u>	<u>R</u>
Slug out 1400	log down	1500 - check 25 sec	2002 b/o
	✓	1600 ✓ 25 sec	2002 b/o

Comments - Adapter is at liner shoe. Fluid is going out below the shoe, down between liner and formation. No fluid is going up beyond shoe. Therefore very low fluid rates are seen below liner. Normal fluid rates seen above liner (in tubing)

Fluid is confined below the shoe @ 1700'

BB

lognazzini 17

14

12

10

8  
7  
6  
5  
4  
3  
2  
1  
0

6

4

2

0

Friction Head = .81 psi/A+

20

40

60

80 GPM 100

120

140

160

4-2-81

32

DIVISION OF OIL AND GAS

Report on Operations

(805) 925-2686

John F. Kieser, Agent

Gato Corporation

3437 Crane Way

Oakland, CA 94502

Santa Maria

Calif.

December 4, 1979

Your operations at well "Tognazzini" 17, API No. 083-01455, Sec. 4, T8N, R. 32W  
S.B., B. & M. Cat Canyon Field, in Santa Barbara County, were witnessed  
on 11-28-79 by M. Bowers, representative of the supervisor, was  
present from 1400 to 1700. There were also present S. Edwards - Test Engineer

Present condition of well: 8 5/8" cem. 1700' W.S.O.; 6 5/8" ld. 1683' - 3501', perfs.  
2753' - 3379'. T.D. 3501'.

The operations were performed for the purpose of demonstrating that all of the injection fluid  
is confined to the intended zone.

DECISION: THE OPERATIONS ARE APPROVED AS INDICATING THAT ALL OF THE INJECTION FLUID  
IS CONFINED TO FORMATIONS BELOW 2753' AT THIS TIME.

*all injection to 4/8"*

MAB:dv

M. G. MEFFERD  
State Oil and Gas Supervisor

By

John L. Zulberti  
Deputy Supervisor

John L. Zulberti

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## DIVISION OF OIL AND GAS

RA Survey

WATER SHUT-IN TEST

No. T

374-369

Operator Grato Corp.Well name and no. "Tognazzini" 17 Sec. 4, T. 8N, R. 32W, SB B&MField Cat Canyon, County Santa Barbara was tested for water shut-off on 11/28/79, Mr. M. Bowers, representative of the supervisor was present from 1400 to 1700. There were also presentScott Edwards, Test Engr.

Casing record of well:

8 5/8" LCM 1700' WSO; 6 5/8" ID 1683'-3501', perf. 2753'-3379'.  
TD. 3501'The operations were performed for the purpose of demonstrating that all of the injection fluid is confined to the intended zone.

- ☐ The \_\_\_\_\_" shut-off at \_\_\_\_\_' is approved.
- ☐ The seal between the \_\_\_\_\_" and \_\_\_\_\_" casings is approved.
- ☒ The operations are approved as indicating that all of the injection fluid is confined to the formations below 2753' at this time.

Hole size: \_\_\_\_\_" fr. \_\_\_\_\_' to \_\_\_\_\_', \_\_\_\_\_" to \_\_\_\_\_' &amp; \_\_\_\_\_" to \_\_\_\_\_'

Casing				Cemented			Top of Fill		Sqd. Away	Final Press	Test psi/min. Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Depth or interval tested \_\_\_\_\_

The hole was open to \_\_\_\_\_' for test.

## FORMATION TEST:

Packer(s) \_\_\_\_\_' &amp; \_\_\_\_\_' Tail \_\_\_\_\_' Bean size \_\_\_\_\_" Cushion \_\_\_\_\_

IHP \_\_\_\_\_ IFP \_\_\_\_\_ FFP \_\_\_\_\_ FHP \_\_\_\_\_

Blow \_\_\_\_\_

Open for test \_\_\_\_\_ Hr. \_\_\_\_\_ min. Fluid entry \_\_\_\_\_

## BAILING TEST:

The hole fluid was bailed to \_\_\_\_\_', at \_\_\_\_\_ on \_\_\_\_\_ 19\_\_.

The hole fluid was found at \_\_\_\_\_', at \_\_\_\_\_ on \_\_\_\_\_ 19\_\_.

(time)

## PRODUCTION TEST:

Gauge/meter reading \_\_\_\_\_ on \_\_\_\_\_ 19\_\_, at \_\_\_\_\_ pump depth \_\_\_\_\_' Engr. \_\_\_\_\_

Gauge/meter reading \_\_\_\_\_ on \_\_\_\_\_ 19\_\_, at \_\_\_\_\_ Engr. \_\_\_\_\_

Fluid level \_\_\_\_\_' surveyed on \_\_\_\_\_ 19\_\_, reviewed (witnessed) by \_\_\_\_\_

Total fluid produced, Bbls. \_\_\_\_\_ Net oil \_\_\_\_\_ Water \_\_\_\_\_

Rate: \_\_\_\_\_ B/D oil, \_\_\_\_\_ B/D water, \_\_\_\_\_ % water cut

## INJECTION SURVEY:

RA/Spinner/Temperature survey run at 200 B/D & 700 psi on 11/28 1979,fluid confined below 2753' (Packer depth 1643') ca. reported 1675'no flow below 2760'± Annulus open during survey.250% reported by Ca

Top perf ck @ 2725  
rate 306%

wait 7 min - tracer may be showing on  
tool noise?

log down - tracer @ 2740  
4½ min wait-log down - tracer @ 2740  
8% - / - / - / - / @ 2740  
12½ - / - / - / - / @ 2745  
17½ - / - / - / - / @ 2748  
23 // - log up - / @ 2750  
45 // - / - / - / down past perf.

Packer ck @ 1630  
rate 171%

wait 5 min - @ 1½ min, 2 & 2½ min

Kicks show (S. Edwards claims  
leaking tool.)

log down from 1725 - kick @ 1658

log up to 1500 - kick @ 1675 & 1570

log up from 1725-1500 - kick @ 1690

Shoe & liner top ck

cont. logging slug from packer ck.

log up from 1725-1650 - kick @ 1706

wait 15 min. // / / / / / / @ 1715 &  
small one @  
1680?

// / / / / / / - slug past 1725  
w/ no other kick

+ log rate ck :

1550' - 1600' = 205%

450 - 500 = 226%



## REPORT OF PROPERTY AND WELL TRANSFER

Field or County Cat Canyon

District 3

Former Owner: Sun Oil Company

Date February 7, 1979

## Description of Property

List of Wells Sec. 4, T. 8 N., R. 32 W., S.B.B.&amp;M.

"Tognazzini" 3 (083-01443)  
 "Tognazzini" 4 (083-00344)  
 "Tognazzini" 17 (083-01455)  
 "Tognazzini" 20 (083-20008)

Sec. 9, T. 8N., R. 32 W., S.B.B.&amp;M.

Tognazzini Lease (All Wells)

Sec. 10, T. 8 N., R. 32W., S.B.B.&amp;M.

"Tognazzini" 5 (083-01444)

Sec. 15, T. 8 N., R. 32W., S.B.B.&amp;M.

Tognazzini Lease (All Wells)

Date of Transfer December 20, 1978

New Owner: Gato Corporation

Address: 1717 - 28th St., Suite A  
Bakersfield, CA 93301

Telephone No. (805) 325-0038

Type of Organization Corporation

Reported by: Gato Corporation

Confirmed by: Sun Oil Company

New Operator New Status PA

, Old Operator New Status PA

Request Designation of Agent

## Remarks:

JLZ:mjn

cc: Conservation Committee

	INITIALS	DATE
Form 121		
New Well Cards		
Well Records		
Electric Logs		
Production Reports		
Map and Book		
Form 148		
Notice to be cancelled		
Bond status		

*Joseph J. Zuelbert*  
 Deputy Supervisor

LEGEND
PA—Producing Active
NPA—Non Potential Active
PI—Potential Inactive
NPI—Non Potential Inactive
Ab—Abandoned or No More Wells

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
**DIVISION OF OIL AND GAS**  
(805) 925-2686

**Report on Operations**

No. T 377-49

Mr. S. M. Burns, Agent  
Sun Oil Company  
23928 Lyons Avenue  
Newhall, CA 91321

Santa Maria, Calif.  
February 4, 1977

DEAR SIR:

Operations at well No. "Tognazzini" 17, API No. (083-01455), Sec. 4, T. 8N, R. 32W,  
S.B. B & M, Cat Canyon Field, in Santa Barbara County, were witnessed  
on 1-25-77. Mr. --, representative of the supervisor was  
present from -- to --. There were also present G. Smith, engineer and  
Dean, logger

Present condition of well: 8 5/8" cem. 1700' WSO; 6 5/8" ld. 1683-3501', perfs. 2753-  
3379'. T.D. 3501'.

The operations were performed for the purpose of demonstrating that all of the injected  
fluid is entering the intended zone.

DECISION: THE OPERATIONS ARE APPROVED AS INDICATING THAT ALL OF THE INJECTION FLUID  
IS CONFINED TO THE FORMATIONS BELOW 1700' AT THIS TIME.

NOTE: This work was not witnessed by a member of this Division, for the reason  
that no engineer was available, but was witnessed as noted above and the  
information was furnished by Mr. G. Smith of Sun Oil Company.

mjn

M. G. MEFFERD, Acting Chief

~~JOHN F. MATTHEWS, JR.~~  
~~State of California~~

By John F. Matthews, Jr. Deputy

27

## DIVISION OF OIL AND GAS

2/A TRACER

WATER SHUT-

TEST

No. T

Operator SUN OIL CO.Well name and no. "TOGNAREZZINI" 1TSec. 4, T. 8N, R. 32W, 58 B&MField CAT CANYON, County SANTA BARBARA was tested for water shut-off on 1/25/77, Mr. \_\_\_\_\_, representative of the supervisor was present from \_\_\_\_\_ to \_\_\_\_\_. There were ~~also~~ present G. SMITH, ENGR.& DEAN, LOGGER.Casing record of well: 8 3/8" CEM. 1700' N.S.O.; 6 3/8" L.O. 1603'-3501', PERFS.2753'-3379' T.D. 3501'.The operations were performed for the purpose of DEMONSTRATING THAT ALL OF THE  
INJECTED FLUID IS ENTERING THE INTENDED ZONE.

- ☐ The \_\_\_\_\_ " shut-off at \_\_\_\_\_ ' is approved.
- ☐ The seal between the \_\_\_\_\_ " and \_\_\_\_\_ " casings is approved.
- ☒ The operations are approved as indicating that all of the injection fluid is confined to the formations below 1700 ' at this time.

Hole size: \_\_\_\_\_ " fr. \_\_\_\_\_ ' to \_\_\_\_\_ ', \_\_\_\_\_ " to \_\_\_\_\_ ' &amp; \_\_\_\_\_ " to \_\_\_\_\_ '.

Casing				Cemented			Top of Fill		Sqd. Away	Final Press	Test psi/min. Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Depth or interval tested \_\_\_\_\_

The hole was open to \_\_\_\_\_ ' for test.

## FORMATION TEST:

Packer(s) \_\_\_\_\_ ' &amp; \_\_\_\_\_ ' Tail \_\_\_\_\_ ' Bean size \_\_\_\_\_ " Cushion \_\_\_\_\_

IHP \_\_\_\_\_ IFP \_\_\_\_\_ FFP \_\_\_\_\_ FHP \_\_\_\_\_

Blow \_\_\_\_\_

Open for test \_\_\_\_\_ Hr. \_\_\_\_\_ min. Fluid entry \_\_\_\_\_

## BAILING TEST:

The hole fluid was bailed to \_\_\_\_\_ ', at \_\_\_\_\_ on \_\_\_\_\_ 19\_\_.

The hole fluid was found at \_\_\_\_\_ ', at \_\_\_\_\_ on \_\_\_\_\_ 19\_\_.

(time)

## PRODUCTION TEST:

Gauge/meter reading \_\_\_\_\_ on \_\_\_\_\_ 19\_\_, at \_\_\_\_\_ pump depth \_\_\_\_\_ ' Engr. \_\_\_\_\_

Gauge/meter reading \_\_\_\_\_ on \_\_\_\_\_ 19\_\_, at \_\_\_\_\_ Engr. \_\_\_\_\_

Fluid level \_\_\_\_\_ ' surveyed on \_\_\_\_\_ 19\_\_, reviewed (witnessed) by \_\_\_\_\_

Total fluid produced, Bbls. \_\_\_\_\_ Net oil \_\_\_\_\_ Water \_\_\_\_\_

Rate: \_\_\_\_\_ B/D oil, \_\_\_\_\_ B/D water, \_\_\_\_\_ % water cut

## INJECTION SURVEY:

RA/Spinner/Temperature survey run at 472 B/D & 600 psi on 1/25 1977,  
fluid confined below 1700 ' (Packer depth 1657.5 ')THIS WORK WAS NOT WITNESSED BY A MEMBER OF THIS DIVISION, FOR THE  
REASON THAT NO ENGINEER WAS AVAILABLE, BUT WAS WITNESSED AS NOTEDABOVE AND THE INFORMATION WAS FURNISHED BY MR. G. SMITH OF  
OGD8 (10-76-GSR1-5M) SUN OIL CO.

240



# WORK PROGRAM

DRLG ☐ WD ☒ REC ☐ ABDM ☐  
 WELL NAME: Tognazz 17  
 LOCATION: 289' N and 743' E of NE corner of Los  
 Alamos Rancho  
 ELEVATION: 1329 K.B. Csg hd 8' - FT ABOVE - MAT/ORD -

Cmt'd w/160 sks  
 @ 75'  
 Baash Ross Lead  
 Seal Bowl @ 108'

DIVISION OF OIL AND GAS  
 RECEIVED

FEB 3 1977

Santa Maria, California

8 5/8" 32# 38# csg  
 @ 1700' w/200 sks  
 TOC 1118' @ 100%

CSG:

8 5/8" 32# & 38# GRD @ 1700' w/200 sks in 12 1/4"  
 hole TOC 1118' @ 100%, TOP Csg cm't w/160  
 sks @ 75', Baash Ross Lead Seal Bowl @ 108'.

6 5/8" 24# J-5 Lnr 1683'-3501'. Perf 2753'-3379'  
 w/400M x 2 x GR x 6C slots.

TD 3501'

## PROCEDURE:

### Prod Wtr disposal survey

Rate of Disposal +475 BHPD

Disposal Pressure +550 psig

1. MIRU tracer logging equipment.
2. Run RIA tracer survey across perforations and check for migration behind packer and casing. Draft up survey by logger.
3. Rig down tracer logging equipment and secure well in original condition.

Notify to witness survey

Div. Oil Gas - Santa Maria  
 805/925-2686  
 Mr. Al Boost

2 7/8" 8RD & Buttress  
 tbq to packer

Baker Md RD Pkr  
 Btm @ 1657.50'  
 Liner adapter -  
 1683'. Csg shoe-1700'

2 3/8" 8RD tbq  
 Pkr to 3003.10'

6 5/8" 24# lnr (1818')

Perfs  
 400 x 2 x 6R x 6"  
 2753'-3379'

Lnr shoe @ 3501'  
 TD 3501'

DE MC

25

DIVISION OF OIL AND GAS  
CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Company GATO CORPORATION Well No. "TOGNAZZINI" 17  
API No. 083-01455 Sec. 4, T. 8N, R. 32W, S.B. B.&M.  
County SANTA BARBARA Field CAT CANYON

<u>RECORDS RECEIVED</u>	<u>DATE</u>
Well Summary (Form OGI00)	
History (Form OGI03)	<u>2-5-87</u>
Core Record (Form OGI01)	
Directional Survey	
Sidewall Samples	
Other	
Date final records received	
Electric logs:	

<u>STATUS</u>	<u>STATUS</u>
Producing - Oil	Water Disposal <input checked="" type="checkbox"/>
Idle - Oil	Waterflood
Abandoned - Oil	Steamflood
Drilling - Idle	Fire Flood
Abandoned - Dry Hole	Air Injection
Producing - Gas	Gas Injection
Idle - Gas	CO <sub>2</sub> Injection
Abandoned - Gas	LPG Injection
Gas-Open to Oil Zone	Observation
Gas Storage	Waterflood Source
DATE	"E" well Yes <input type="checkbox"/> No <input type="checkbox"/>
RECOMPLETED	<u>12/18/76</u>
REMARKS	

ENGINEER'S CHECK LIST

- Summary, History, & Core record (dupl.) ☒
- Electric Log ☒
- Operator's Name ☒
- Signature ☒
- Well Designation ☒
- Location
- Elevation
- Notices Filed 10 years after the work done.
- "T" Reports
- Casing Record
- Plugs
- Surface Inspection
- Production Injection ☒
- E Well on Prod., enter EDP
- Directional Survey

CLERICAL CHECK LIST

- Location change (F-OGD165)
- Elevation change (F-OGD165)
- Form OGD121
- Form OGI59 (Final Letter)
- Form OGD150b (Release of Bond)
- Duplicate logs to archives
- Notice of Records due (F-OGD170)
- EDP (F-OGD42A-1, 2)

*NOTE: Notice not answered because it was filed 10 years after work was done.*

RECORDS NOT APPROVED  
Reason: \_\_\_\_\_

RECORDS APPROVED ☒ *nm*

RELEASE BOND  
Date Eligible \_\_\_\_\_  
(Use date last needed records were received.)  
MAP AND MAP BOOK NC

SUBMIT IN DUPLICATE  
RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
**DIVISION OF OIL AND GAS**

30981-705 2-75 10M ② OSP

**History of Oil or Gas Well**

OPERATOR SUN OIL COMPANY FIELD Cat Canyon  
Well No. Tognazzini 17, Sec. 9, T. 8N, R. 32W, SB B. & M.  
Date April 6, 19 77 Signed D. Van Orden for  
23928 Lyons Avenue Jack Andrews, Dist. Prod. Mgr.  
Newhall, California 91321 Title Agent  
(Address) (Telephone Number) (President, Secretary or Agent)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date

1976

- 12/15 Dialog tbq (no holes). MIRU. Inst BOE. POH w/pkr and tbq. SD @ 12:00 midnight.
- 12/16 RIH w/8 5/8 BP and bkr full bore pkr. Set BP @ 1675. Start tstng out. Found csg lk @ 413. POH w/full bore. Dmp 2 cu ft snd on top of BP @ 1675.
- 12/17 RIH to 1670'. Tag top snd on BP. Pull to 400'. Spot 25 sks, Class G, 2% CaCl<sub>2</sub>. POH. RIH w/full bore set @ 124. Broke down. Hole in csg @ 1800' PSI @ .25 BPM. Displ cmt. Press fell to 200 PSI - no build up. WOC 3 hrs. POH. RIH to 400'. Spot 25 sks, Class G, 2% CaCl<sub>2</sub>. POH. RIH w/full bore set @ 124'. Displ cmt on vac. WOC 3 hrs. POH. RIH to 400'. Spot 50 sks, Class G, 2% CaCl<sub>2</sub>. POH. RIH w/FB to 60'. Displ cmt on vac. WOC 3 hrs. POH. RIH to 400'. Spot 50 sks, Class G, 2% CaCl<sub>2</sub>. POH. RIH w/FB to 60'. Displ cmt. Press to 500# PSI after 40 sks in. Held for 20 min. POH. RU pwr swivel.
- 12/18 RIH. Drl cmt 371-413. POH. RIH w/full bore to 62'. Tst csg @ 500 PSI for 20 min at RIH w/retr tool. Rev circ, snd off BP. Retr BP. POH. RIH w/bkr 8 5/8" AD-1 pkr set @ 1658 w/12,000# tens. Displ inhib wtr in annulus. Prep to put on inj.
- 12/19 Inj 601 BW in 22 hrs @ 540 PSI.
- 12/20 Inj 655 BW in 24 hrs @ 540 PSI.
- 12/21 Inj 628 BW in 24 hrs @ 560. CP 140#. Bled off 7 gal. Press to 0. Final rpt.

Map No.	Map Letter	Bond No.	Forms	
			115	114

DIVISION OF OIL AND GAS  
RECEIVED

FEB 5 1987

SANTA MARIA, CA



# DIVISION OF OIL AND GAS

## Notice of Intention to Rework Well

This notice and indemnity or cash bond shall be filed, and approval given, before rework begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

FOR DIVISION USE ONLY		
BOND	OGD114	OGD121

### DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3. Public Resources Code, notice is hereby given that it is our intention to rework well No. Tognazzini #17, API No. 083-01455, Sec. 8, T. 8N, R. 32W, S. B. B. & M., Cat Canyon (Gato Ridge) Rd., Santa Barbara County.

The present condition of the well is as follows:

- Total depth. 3501
- Complete casing record, including plugs and perforations:  
 8 5/8" 32# & 38# Gr D @ 1700' W 200 sks in 12 1/4", hole around shoe  
 @ 75' W 160 sks, casing bowl 108', holes @ ?  
 6 5/8" 24# line 1683-3501' slotted w/400M 2" x 6R x 6C 2753-3379' w/Baash-Ross adapter and Texas-Calif pattern shoe.

- Present producing zone name Monterey Zone in which well is to be recompleted same
- Present zone pressure ±540 surface New zone pressure same
- Last produced \_\_\_\_\_  
 (Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)  
 or  
 6. Last injected 11-76 484 ±540  
 (Date) (Water, B/D) (Gas, Mcf) (Surface pressure, psig.)

The proposed work is as follows:

- RIH w/bridge plug and packer.
- Test casing to locate casing leak.
- Squeeze casing hole with Class G cement as required to obtain shut off.
- Drill out cement. Test for shut off.
- Run tubing and packer. Set packer ±1657.
- Return well to injection. Run tracer survey.

DIVISION OF OIL AND GAS  
RECEIVED

FEB 5 1987

SANTA MARIA, CA

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 23928 Lyons Avenue  
 (Street)  
Newhall California 91321  
 (City) (State) (Zip)  
 Telephone Number 805/259-2440

SUN OIL COMPANY (DELAWARE)  
 (Name of Operator)  
 By John Alden 11-24-76  
 (Name) (Date)  
 Type of Organization Corporation  
 (Corporation, Partnership, Individual, etc.)

TOGNAZZINI #17  
WELL

GATO RIDGE AREA  
CAT CANYON FIELD  
FIELD

DATE

- ☐ PRESENT COMPLETION  
☐ SUGGESTED COMPLETION

PERMANENT WELL BORE DATA

drilled 12 1/4" hole to 1700  
set 8 5/8", 32# csg @ 1700  
w/200 sks cmt (calc  
TOC @ 1115)  
drilled 7 5/8" hole to 2545  
had to repair 8 5/8" csg  
part @ 91; cut 8 5/8" csg  
@ 108 and recovered;  
relanded 8 5/8" @ 108;  
cmt outside of 8 5/8" csg  
w/160 sks cmt thru 1" pipe  
@ 75; cmt to surface  
drilled 7 5/8" hole 2545-3501  
hung 6 5/8", 24# lnr from  
1683-3501, slotted 2753-  
3379

12-76 found csg leak in  
8 5/8" csg @ 413; squeezed  
a total of 150 sks cmt  
run pkr on tbg @ 1658  
Baker 8 5/8" AD-1 pkr set  
w/12,000 # tension

1658

Other  
Thy on location.

DIVISION OF OIL AND GAS  
RECEIVED

FEB 5 1987

SANTA MARIA, CA

ACT = SWD

✓

- ☐ ORIGINAL COMP.

WELL CLASS

DATA ON THIS COMPLETION

cmt from surface to 75

squeezed 110 sks cmt out  
csg leak @ 413

top 6 5/8" lnr @ 1683

8 5/8" csg @ 1700  
calc TOC @ 1115

7 5/8" hole 1700-3501

btm 6 5/8" lnr @ 3501

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ORLG ☐ WO. XX REC. ☐ ABON. ☐  
 WELL NAME: Tognazz 17  
 LOCATION: 289<sup>th</sup> N and 7 E of NE corner of Los  
 Atamos Rancho  
 ELEVATION: 1329 K.B. Csg hd -PT ABOVE-MAT/CRND-

CSG:

8 5/8" 32# & 38# GRD @ 1700' w/200 sks in 12 1/4" hole TOC 1118' @ 100%, TOP Csg cm't w/160 sks @ 75', Baash Ross Lead Seal Bowl @ 108'.

6 5/8" 24# J-5 Lnr 1683'-3501'. Perf 2753'-3379' w/400M x 2 x GR x 6C slots.

TD 3501'

PROCEDURE:

1. MIRU PROD RIG.
2. Release & pull pkr (Baker Md R-3) & tubing.
3. Dress packer. RIW w/retrievable bridge plug. Set bridge plug @ 1675'.
4. Work from bridge plug up. Testing casing to 1000 psi to locate leak. After locating csg hole, establish rate & pressure to determine cement required. Dump 2 sks sand on bridge plug.
5. MIRU cementing surface. Set pkr (Baker MD R-3) ±90' above csg hole. Squeeze with volume of Class G cement containing 2% CaCl determined in Step 4. Stage in if required to obtain squeeze pressure determined from hole depth. WOC 2 hrs.
6. POOH w/tbg & pkr. WOC 6 hrs. Rig up power swivel & circulating tanks. RIH w/7 3/8" bit & drill out cement. Clean out to bridge plug.
7. POOH with drilling assembly. RIH w/pkr. Set above hole & pressure test to squeeze pressure. If csg holds, wash sand off bridge plug & retrieve. If squeeze job does not hold, return to Step 4 & repeat squeeze procedure.
8. RIH w/pkr (Baker Md R-3) on 2 7/8" tbg & set @ 1675'. Load annulus with treated water.
9. Connect to III system. Establish a few days injection & run tracer survey to establish packer & casing shoe shut off.

Cmt'd w/160 s  
@ 75'

Baash Ross Lead  
Seal Bowl @ 108'

8 5/8" 32# 38# csg  
@ 1700' w/200 sks  
TOC 1118' @ 100%

2 7/8" 8RD & Buttress  
tbg to packer

Baker Md R-3 Pkr  
Btm @ 1657.50'  
Liner adapter -  
1683'. Csg shoe-1700'

2 3/8" 8RD tbg  
Pkr to 3003.10'

6 5/8" 24# lnr (1818')

Perfs  
400 x 2 x 6R x 6"  
2753'-3379'

Lnr shoe @ 3501'

TD 3501'

DIVISION OF OIL AND GAS  
RECEIVED

FEB 5 1987

SANTA MARIA, CA

ORIGINAL WAS SIGNED:

DATE: 11-24-76 BY: AEM

APPR: 20



DIVISION OF OIL AND GAS  
WATER SHUT-OFF TEST

MEMO

Static Temperature survey Water Shut-Off Test

Operator Sun Oil Co

Well No. "Tognazzini" 17 Sec. 4, T. 8N, R. 32W, SB B&M

Field CoT Cyn, County Santa Barbara was tested for water shut-off on 9-9-76, Mr. PA Kinnear, representative of the supervisor was present from 1215 to 1500. There were also present

G. Smith, Engr & H. Perry, logging engr.  
Casing record of well: 8 5/8 cas 1700' w/o; 6 7/8 id 1683' - 3501', perfs 2953' - 3379. T-D 3501'.

The operations were performed for the purpose of demonstrating that all of the injected fluid is entering the intended zone.

- ☐ The \_\_\_\_\_" shut-off at \_\_\_\_\_' is approved.
- ☐ The operations as witnessed and reported are approved and indicate that no fluid has access to the well from the annulus between \_\_\_\_\_" and \_\_\_\_\_" casings.
- ☒ The operations as witnessed and reported are <sup>NOT</sup> approved as indicating that all of the injection fluid is confined to the formations below 1700' at this time.

Hole size: \_\_\_\_\_" fr. \_\_\_\_\_' to \_\_\_\_\_', \_\_\_\_\_" to \_\_\_\_\_' & \_\_\_\_\_" to \_\_\_\_\_'

Casing				Cemented			Top of fill		Squeezed Away	Final Press.	Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Depth or interval tested \_\_\_\_\_

The hole fluid was bailed to \_\_\_\_\_' at \_\_\_\_\_ on \_\_\_\_\_ 19\_\_\_\_.

The hole was open to \_\_\_\_\_' for test.

Packer(s) \_\_\_\_\_' & \_\_\_\_\_' Tail \_\_\_\_\_' Bean size \_\_\_\_\_" Cushion \_\_\_\_\_

IHP \_\_\_\_\_ IFP \_\_\_\_\_ FFP \_\_\_\_\_ FHP \_\_\_\_\_

Blow \_\_\_\_\_

Open for test \_\_\_\_\_ Hr. \_\_\_\_\_ min. Fluid entry \_\_\_\_\_

Date \_\_\_\_\_ 19\_\_\_\_ Time \_\_\_\_\_ Guage/meter reading \_\_\_\_\_ Pump depth \_\_\_\_\_' Engr. \_\_\_\_\_

Date \_\_\_\_\_ 19\_\_\_\_ Time \_\_\_\_\_ Guage/meter reading \_\_\_\_\_ Engr. \_\_\_\_\_

Fluid level \_\_\_\_\_' surveyed on \_\_\_\_\_ 19\_\_\_\_, reviewed (witnessed) by \_\_\_\_\_

Total fluid produced, Bbls. \_\_\_\_\_ Net oil \_\_\_\_\_ Water \_\_\_\_\_

Rate: \_\_\_\_\_ B/D oil, \_\_\_\_\_ B/D water, \_\_\_\_\_ % water cut

RA/Spinner (Temperature) survey run at Static B/D & 430 psi on 9-9- 1976,

fluid confined below 1620' (Packer depth 1675')

Static Temp surv. - well shut in morn of 9-8-76

Hot spot @ 625'± 94.7° - 95.9°

MEMO

DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

301 WEST CHURCH STREET, P. O. BOX 227

SANTA MARIA, CALIFORNIA 93454

(805) 925 2686



July 26, 1976

S. M. Burns  
Sun Oil Company  
23928 Lyons Avenue  
Newhall, CA 91321

Well No. "Tognazzini" 17  
Sec. 4, T.8N., R.32W., S.B.B. & M.  
Cat Canyon Field

We reviewed the temperature survey for the above-captioned well run in conjunction with the radioactive tracer survey made on June 24, 1976, and find that it is not conclusive as a means of demonstrating that all the injection fluid is confined to the intended zone.

A static temperature survey run after the well has been shut in for 24 hours might be diagnostic. An alternative might be to change the mechanical condition of the well so that conclusive results may be obtained from the radioactive tracer survey.

If you have other alternatives, feel free to discuss them with me.

*John L. Zulberti*  
John L. Zulberti  
Deputy Supervisor

JLZ:db

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
**DIVISION OF OIL AND GAS**  
(805) 925-2686  
**Report on Operations**

No. T 376-200

Mr. S. M. Burns  
Sun Oil Company  
23928 Lyons Avenue  
Newhall, CA 91321

Santa Maria, Calif.  
July 7, 1976

DEAR SIR:

Operations at well No. "Tognazzini" 17, API No. (083-01455), Sec. 4, T. 8N, R. 32W,  
S.B., B & M. Cat Canyon Field, in Santa Barbara County, were witnessed  
on 6-24-76 by Mr. A. Boost, representative of the supervisor was  
present from 1730 to 2000. There were also present Greg Smith, engineer

Present condition of well: 8 5/8" cem. 1700' WSO; 6 5/8" 1d. 1683-3501', perfs. 2753-  
3379'. T.D. 3501'.

The operations were performed for the purpose of witnessing a demonstration that all of  
the injected fluid is entering the intended zone.

DECISION: THE OPERATIONS AS WITNESSED AND REPORTED ARE NOT APPROVED AS INDICATING  
THAT ALL OF THE INJECTION FLUID IS CONFINED TO THE FORMATIONS BELOW 2753'  
AT THIS TIME.

NOTE: The results of this radioactive tracer survey appear to be inconclusive in  
that the tracer has to move 1300' up the hole before reaching the shoe of  
the 8 5/8" casing. By then, the tracer could have become excessively diluted.  
Perhaps a <sup>surface</sup> temperature survey might be more indicative of the distribution of  
the injected water. If one was run in conjunction with the radioactive tracer  
survey, it will be examined when filed and a decision made.

AB:mjn

Harold W. Bertholf

X JOHN F. MATTHEWS X  
State Oil and Gas Supervisor

By John F. Matthews Deputy

17



DIVISION OF OIL AND GAS  
WATER SHUT-OFF TEST

NOTE USED AS  
INJECTION WELL  
BEFORE  
1376-200 JN

Water Shut-Off Test

R/A TRACER TEST

Operator SUN OIL CO.

Well No. "TOGNAZZINI" 17 Sec. 4, T. 8N, R. 32W, S. B. B&M

Field CAT CANYON, County SANTA BARBARA was tested for water shut-off on 6/24/76, Mr. A. BOOST, representative of the supervisor was present from 1730 to 2000. There were also present GREG SANTH, ENGR.

Casing record of well: 8 5/8" CEM. 1700' - 3379' W50; 6 3/8" L.O. 1683' - 3501' PERFS 2753' - 3379'  
T.D. 3501'

The operations were performed for the purpose of WITNESSING A DEMONSTRATION THAT ALL OF THE INJECTED FLUID IS ENTERING THE INTENDED ZONE.

- ☐ The \_\_\_\_\_" shut-off at \_\_\_\_\_' is approved.
- ☐ The operations as witnessed and reported are approved and indicate that no fluid has access to the well from the annulus between \_\_\_\_\_" and \_\_\_\_\_" casings.
- ☒ The operations as witnessed and reported are <sup>NOT</sup> approved as indicating that all of the injection fluid is confined to the formations below 2753' at this time.

Hole size: \_\_\_\_\_" fr. \_\_\_\_\_' to \_\_\_\_\_', \_\_\_\_\_" to \_\_\_\_\_' & \_\_\_\_\_" to \_\_\_\_\_'

Casing				Cemented			Top of fill		Squeezed Away	Final Press.	Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Depth or interval tested 2753' - 3379'

The hole fluid was bailed to \_\_\_\_\_' at \_\_\_\_\_ on \_\_\_\_\_ 19.

The hole was open to \_\_\_\_\_' for test.

Packer(s) \_\_\_\_\_' & \_\_\_\_\_' Tail \_\_\_\_\_' Bean size \_\_\_\_\_" Cushion \_\_\_\_\_

IHP \_\_\_\_\_ IFP \_\_\_\_\_ FFP \_\_\_\_\_ FHP \_\_\_\_\_

Blow \_\_\_\_\_

Open for test \_\_\_\_\_ Hr. \_\_\_\_\_ min. Fluid entry \_\_\_\_\_

Date \_\_\_\_\_ 19 Time \_\_\_\_\_ Gauge/meter reading \_\_\_\_\_ Pump depth \_\_\_\_\_' Engr. \_\_\_\_\_

Date \_\_\_\_\_ 19 Time \_\_\_\_\_ Gauge/meter reading \_\_\_\_\_ Engr. \_\_\_\_\_

Fluid level \_\_\_\_\_' surveyed on \_\_\_\_\_ 19, reviewed (witnessed) by \_\_\_\_\_

Total fluid produced, Bbls. \_\_\_\_\_ Net oil \_\_\_\_\_ Water \_\_\_\_\_

Rate: \_\_\_\_\_ B/D oil, \_\_\_\_\_ B/D water, \_\_\_\_\_ % water cut

RA/Spinner (Temperature) survey run at 530 B/D & 600 psi on 6/24 1976, fluid confined below \_\_\_\_\_' (Packer depth 1675' )

PXK UP 3450' RATE CHECKS 2875' - 2950' 508 B/D 2875' - 2859' 347 B/D

2770' - 2765' 70 B/D 2739' - 2750' 257 B/D 2450' LOG DOWN TO 2600', PERFORMING @

MIGRATION ABOVE TOP PERF. 2500'. Rate checks were on fluid moving up outside tubing.

### SURVEY DATA SHEET

Svc. Order No

Type Survey R/A-TEMP

Truck No

Company SUN OIL CO.

Date \_\_\_\_\_

Well LOGMAZZINI "11"

Field/Location

JUL 20 1976

Co. Rep. GREG SMITH

Survey Engr.

Casing and Tubing Record			
Size	Wgt.	From	To
27 1/2	TB6	0	3003
6 5/8	24	1683	3501
8 5/8	38	0	1700
Packer @		1675	
Tbg. Tail to		3003	
Perforations		2753-3379	
		SLOTTED.	
CP		W.S.O.	1700

Zero Point <u>8'</u>	Total Depth <u>3501</u>
Tools <u>TEMP</u>	Triangle Pickup <u>3440'</u>
<u>TRACER</u>	Depth <u>Reset</u>
	Fluid Level <u>          </u>
Well Status <u>WATER</u>	
Producing	Injection
TBG. Press. <u>          </u> PSI	TBG Press. <u>200</u> PSI
CSG. Press. <u>          </u> PSI	CSG. Press <u>0</u> PSI
Water <u>          </u> b/d	Meter Rate <u>630</u> b/d
Oil <u>          </u> b/d	Flow Loss <u>          </u> b/d
Gas <u>          </u> Mcf	Net Rate <u>630</u> b/d

Time	Depth	Counts	Aug. Count	B/D

Time arrived location 18:00 STARTING TEMP 97.2 °F  
Start Job 18:10 Finish Job \_\_\_\_\_ Max. Rec. Temp. 128.5 °F. Steam \_\_\_\_\_  
Off Location \_\_\_\_\_ Total Hrs. \_\_\_\_\_ at 3440 Ft. Quality \_\_\_\_\_%

Time of Day	Run No.	Type	Line Spd. FPM	Direction	Calib.	Depth.
18:20	1	TEMP	80	Down	1° PER	1600 <del>3440</del>
18:50	START R/A RUN UP.					

[illegible]

TRIANGLE SERVICE  
TRACER DATA SHEET

WELL NO. TOGMAZZINI #17  
PAGE NO. 2

SPACING 8 INJECTOR TO DETECTOR TOOL SIZE 1 3/8

PIPE SIZE 2 1/8 ~~1 3/8~~ CONSTANT 120 PIPE SIZE 6 5/8 ~~2 1/2~~ <sup>2232</sup> ~~2778~~ <sup>ANNUALS</sup> ~~PIPE SIZE 2232 <sup>ANNUALS</sup> ~~PIPE~~ SIZE 2778 CONSTANT~~

SHOT NO.	DEPTH	RUN NO.	PEAK DEPTH	TIME		$\Delta$ DISTANCE	$\Delta$ TIME (SEC)	RATE (B/D)
				MIN. SEC.	TOTAL SEC.			
1	3050		LOG up.	3040	= 3040	0	1	6
2	3025		"	3013	= 3013	0	1	0
3	3000		SLUG OUT LOG=40.				1	
3-1	2975		WAIT FOR SLUG.	=			1	
3-2	2950			=		25	110	508
3 3	2925			=		25	130	430
				=			1	
4	2900		SLUG OUT.	=			1	
			LOG DOWN	2929	= 2929		1	
			Chasing slug up	<del>2905</del>	<del>2901</del>	<del>4</del>	<del>165</del>	<del>137</del>
				2873	= 2859	14	190	347
				2859	= 2835	24	165	325
				2835	= 2823	12	190	298
				2823	= 2818	5	105	106
				2818	= 2791	27	185	710
				2791	= 2770	21	190	521
				2770	= 2765	5	158	70
				2765	= 2750	15	147	713
				2750	= 2739	11	195	259
				=			1	
4-1	<del>2850</del>		LOG DOWN ON DEPTH. DEPTH.	=			1	
				=			1	

REMARKS

PACKER CHECK  
TOP DEPTH  
SIDE CHECK

LEAK



# RECORDS RECEIVED

Date Received Sept. 14, 1972  
 Well Summary (Form 100) x  
 History (Form 103) x  
 Core Record (Form 101) \_\_\_\_\_  
 Elec. Log - Lge. Small  
 Direct. Survey \_\_\_\_\_  
 Sidewall Samples \_\_\_\_\_  
 Other Survey 9-20-76

Notice of Records Due  
 Form 170 \_\_\_\_\_

Date Final Records Received \_\_\_\_\_

## ENGINEER'S CHECK LIST

1. Summary, History, & Core record (dupl.) ✓
2. Electric Log \_\_\_\_\_
3. Operator's Name ✓
4. Signature ✓
5. Well Designation ✓
6. Location ✓
7. Elevation ✓
8. Notices ✓
9. "T" Reports ✓
10. Casing Record ✓
11. Plugs \_\_\_\_\_
12. Surface Inspection \_\_\_\_\_
13. Production injection ✓

## RECORDS NOT APPROVED

Reason: \_\_\_\_\_

## RECORDS APPROVED OK

## RELEASE BOND

Date Eligible \_\_\_\_\_

(Use date last needed records were received.)

MAP & MAP BOOK NC

310 6/19/76 PJK

# STATUS

Producing - Oil \_\_\_\_\_  
 Idle - Oil \_\_\_\_\_  
 Abandoned - Oil \_\_\_\_\_  
 Drilling - Idle \_\_\_\_\_  
 Abandoned - Dry Hole \_\_\_\_\_  
 Producing - Gas \_\_\_\_\_  
 Idle - Gas \_\_\_\_\_  
 Abandoned - Gas \_\_\_\_\_  
 Gas - Open to Oil Zone \_\_\_\_\_  
 Water Flood Source \_\_\_\_\_  
 Water Disposal 9/76 \_\_\_\_\_  
 Water Flood \_\_\_\_\_  
 Steam Flood \_\_\_\_\_  
 Fire Flood \_\_\_\_\_  
 Air Injection \_\_\_\_\_  
 Gas Injection \_\_\_\_\_  
 CO<sub>2</sub> Injection \_\_\_\_\_  
 LPG Injection \_\_\_\_\_  
 Observation \_\_\_\_\_

## RECOMPLETED

## CLERICAL CHECK LIST

1. Location change (F-165) \_\_\_\_\_
2. Elevation change (F-165) \_\_\_\_\_
3. Form 121 \_\_\_\_\_
4. Form 159 (Final Letter) \_\_\_\_\_
5. Form 150b (Release of Bond) \_\_\_\_\_

Sun Oil Co.

"Tognazzini" 17  
 (083-01455)

hold for Tognazzini - Survey  
on 8/24/76 FALCO.

Hold for Trans. Spinner

Keller / V. A. 3-26-74

2. well ... will remain so.



## WELL SUMMARY REPORT

SEP 14 1972

Santa Maria, California

Field Cat Canyon (Gato Ridge)\*Well No. Tognazzini # 17, Sec. 4, T. 8N, R. 32W, S.B. B&MLocation 289'N and 743'E of NE corner of Los Alamos RanchoElevation of K.B. above sea level 1329'K.B. above Concrete Mat  
GroundDate 9-11-72Signed P. J. WallContractor G & O Production ServicesType rig Pulling unitCommenced conversion : 7-22-72  
(Date)Completed conversion : 7-22-72  
(Date)

## WELL CONDITIONS PRIOR TO WORK

Total Depth 3501 Plugged Depth -8 5/8" 32# & 38# @ 1700' w/200 sacks  
6 5/8" 24# liner 1683'-3501' slotted  
w/400M 2" slots 2753'-3379'

## WELL CONDITIONS AFTER WORK

Total Depth 3501 Plugged Depth -8 5/8" 32# & 38# @ 1700' w/20 sacks  
6 5/8" 24# liner 1683'-3501' slotted  
w/400M 2" slots 2753'-3379'.2 7/8" 6.5# tubing @ 3003' w/Model R packer  
@ 1675'.Commenced Producing \_\_\_\_\_ Flowing/gas lift/pumping  
(Date)

Initial production

Production after \_\_\_\_\_ days

Clean Oil Bbls. per day	Gravity Clean Oil	Per Cent Water Incl. Emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
					12

Electrical Log Depths \_\_\_\_\_

(Attach copy of Log)

SEP 14 1972

Santa Maria, California

## DIVISION OF OIL AND GAS

## History of Oil or Gas Well

OPERATOR SUN OIL COMPANY FIELD Cat Canyon (Gato Ridge)  
 Well No. Tognazzini # 17, Sec. 94, T. 8N, R. 32W, S.B. B. & M.  
 Date September 12, 1972 Signed P. T. Wall  
23928 Lyons Avenue P. T. Wall, Dist. Prod. Manager  
Newhall, California 91321 (805) 259-2440 Title Agent  
 (Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date

1972

7-22

MIRU workover unit. Run casing scraper to 1675'.

7-23

Bailed hole to 3501'. Ran tubing with 8 5/8" Model R packer to 3003'. Set packer at 1675'. Released rig.

Map No.	Map Letter	Bond No.	Forms		
			118	119	121
					9-14-72 al

17

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 372-252

WATER-DISPOSAL PROJECT  
GATO RIDGE AREA  
MONTEREY ZONE - SEC. 4

Mr. Philip T. Wall, Agent  
Sam Oil Company (805) 259-2440  
23928 Lyons Avenue  
Newhall, CA 91321

Santa Maria Calif.  
July 27, 1972

DEAR SIR:

(083-01455)

Your proposal to convert to water disposal well No. "Tognazzini" 17,  
Section 4, T. 8N, R. 32W, S.B. B. & M., Cat Canyon Field, Santa Barbara County,  
dated 7-21-72, received 7-26-72, has been examined in conjunction with records filed in this office.

DECISION: THE PROPOSAL IS APPROVED PROVIDED THAT:

1. The general requirements established in letter dated July 25, 1972 approving the project shall be made part of this report.
2. THIS DIVISION SHALL BE NOTIFIED TO WITNESS all injection-profile surveys referred to in Item 5 of above-mentioned letter.

NOTES:

1. There are no fresh-water-bearing strata in this area.
2. The water to be injected tests 6033 ppm NaCl and is produced from neighboring oil wells.
3. Injection will be into the Monterey oil zone. Strata in the injection interval contain oil and salt water. The salt water tests 6033 ppm NaCl.
4. Approximate surface location of well: From NW corner of Sec. 4, 4400' S, 2400' E.

*John Hinkel/Schneberger 9/19/72*  
*Well physically converted*  
*injectivity test OK*  
*Union objected to disposal & agreed to take waste water*  
*will keep well as idle injector until further notice*

Blanket bond

JLE:al

cc: Dept. of Water Resources  
Regional Water Quality Control Board

*Work done 7-23-72*  
*Never used as an in-*  
*jection well.*

JOHN F. MATTHEWS, Jr., State Oil and Gas Supervisor

By John F. Matthews, Jr., Deputy

JUL 26 1972

## DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well Santa Maria, California

This notice must be given before work begins; one copy only

Newhall Calif. July 21, 1972

## DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to  
status change  
commence the work of deepening, ~~redrilling, plugging or altering casing~~ at Well No. Tognazzini #17  
(Cross out unnecessary words)

Sec. ~~1~~ 8N, R. 32W, S.B. B. & M.  
Cat Canyon (Gato Ridge) Field, Santa Barbara County.

The present condition of the well is as follows:

1. Total depth. 3501'
2. Complete casing record, including plugs:  
8 5/8" 32 & 38# G.D. @ 1700' w/200 sacks in 12 1/4" hole  
6 5/8" 24# liner 1683'-3501' slotted w/400 M 2" slots from 2753'-3379'  
in 7 5/8" hole set w/Baash Ross adapter and Texas-Calif pattern shoe.

3. Last produced. 7-20-46 0 0 0  
(Date) (Oil, B/D) (Water, B/D) (Gas)

The proposed work is as follows:

1. Scrape 8 5/8" casing to 1675'.
2. Bail hole clean to 350'.
3. Run tubing and packer. Set packer at 1650±, with tail to 3000'.
4. Place well on injection.

Map No.	Map Letter	Bond No.	Forms		
			115	116	121
				7-27-72	7-26-72

23928 Lyons Avenue  
Newhall, California 91321

(Address)

(805) 259-2440

(Telephone No.)

SUN OIL COMPANY

(Name of Operator)

By P. T. Wall  
P. T. Wall, Dist. Prod. Manager

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED



STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL AND GAS

MEMORANDUM OF TELEPHONE OR PERSONAL CONVERSATION

Operator SUN OIL CO. Well No. 5.M. " 17  
Field CAT CANYON Sec. 4 T. 8N R. 32W 5B B. & M.  
personal  
A telephone conversation was held, concerning the above well, with Mr. JOHN HINKEL  
for the above operator on 7-17 1972 at 1120 ~~AM~~

Details of the conversation were as follows:

PLAN TO CONVERT SUBJECT WELL TO WATER  
DISPOSAL IN MONTEREY ZONE. WELL IS ACROSS  
THE FAULT FROM THE PRODUCTIVE PART OF  
THE MONTEREY RESERVOIR.

PROPOSAL WILL BE MAILED TODAY FROM  
NEWMALL OFFICE.

OPERATOR GIVEN VERBAL APPROVAL TO  
BEGIN WORK ON WELL AND FACILITIES  
IN ORDER TO MEET AUG. DEADLINE.

[SIGNED]

F.O. Hellmuth

Title

Eng.

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS

# REPORT OF PROPERTY AND WELL TRANSFER

Field or County Cat Canyon field

District 3

Former Owner: Sun Oil Company - DX Division

Date April 1, 1970

Description of Property

## List of Wells

All wells Sec. 4, T. 8 N., R. 32 W., S.B.B. & M.  
All wells Sec. 8, T. 8 N., R. 32 W., S.B.B. & M.  
All wells Sec. 9, T. 8 N., R. 32 W., S.B.B. & M?  
All wells Sec. 10, T. 8 N., R. 32 W., S.B.B. & M.  
All wells Sec. 15, T. 8 N., R. 32 W., S.B.B. & M.  
All wells Sec. 21, T. 9 N., R. 33 W., S.B.B. & M.  
All wells Sec. 23, T. 9 N., R. 33 W., S.B.B. & M.

Date of Transfer April 1, 1970

New Owner: Sun Oil Company

Address:

Telephone No.

Type of Organization Corp.

Reported by: Sun Oil Company - DX Division

Confirmed by:

New Operator New Status:

New Operator New Status:

Request Designation of Agent:

Remarks:

Corporate name change

cc: Conservation Committee

	INITIALS	DATE
Form 121		
New Well (111)		
Well Record		
Electric Logs		
Production Record		
Map and Book		
Form 144		
Notice to be		
Bound (111)		

*M. B. Albright*  
Deputy Supervisor

## LEGEND

PA - Producing Active  
NPA - Non Potential Active  
PP - Potential Producer  
NPP - Non Potential Producer  
D - Discontinued or No More Wells



# DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS  
RECEIVED  
SEP 13 1947  
SANTA MARIA, CALIFORNIA

## WELL SUMMARY REPORT

Operator Sunray BARNSDALL OIL COMPANY Field Cat Canyon (Gato Ridge Area)  
Well No. "Tognazzini" 17 Sec. 9, T. 8 N, R. 32 W, SB B. & M.  
Location 289.00' N. & 743.38' E. fr. N.E. cor. of Elevation of ground or 1329'  
Los Alamos ranch conc. mat 1321' feet.

In compliance with the provisions of Chapter 93, Statutes of 1939, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date September 12, 1947 Signed E. D. Carter  
D. H. Fortine T. J. Prehoda Title Agent  
(Engineer or Geologist) (Superintendent) (President, Secretary or Agent)

Commenced drilling July 16, 1946 Completed drilling August 18, 1946 Drilling tools Rotary

Total depth 3501' Plugged depth \_\_\_\_\_

Junk None

### GEOLOGICAL MARKERS

### DEPTH

Suspended  
Commenced producing August 21, 1946  
(date)

Flowing/gas lift/pumping  
(cross out unnecessary words)

Initial production  
Production after 30 days

Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure

### CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Casing landed in	Number of Sacks of Cement	Depth of Cementing if through perforations
<u>8 5/8"</u>	<u>1700'</u>	<u>Surface</u>	<u>32 &amp; 38#</u>	<u>S.H.</u>	<u>Smls.</u>	<u>"D"</u>	<u>12 1/2"</u>	<u>200</u>	
<u>6 5/8"</u>	<u>3501'</u>	<u>1683'</u>	<u>24#</u>	<u>New</u>	<u>"</u>	<u>J-55</u>	<u>7 5/8"</u>		

### PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
<u>6 5/8"</u>	<u>2753</u> ft.	<u>3379</u> ft.	<u>400 H x 2"</u>	<u>6</u>	<u>6"</u>	<u>Shop</u>
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				

Electrical Log Depths 220'-1696', 1696'-3299', 3299'-3501' (Attach Copy of Log)

Completed - Idle  
9-20-47  
9-19-47  
9-13-47



SUBMIT IN DUPLICATE  
STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

## History of Oil or Gas Well

DIVISION OF OIL & GAS  
RECEIVED

SEP 13 1947

SANTA MARIA, CALIFORNIA  
(Gato Ridge Area)OPERATOR Sunray  
(BARNSDALL OIL COMPANY)

FIELD

Cat Canyon

Well No.

Tognassini 17

Sec.

9

T.

8 N

R.

32 W

98

B. &amp; M.

Signed

E. D. Carter

Date

September 12, 1947

Title

Agent

(President, Secretary or Agent)

Use this form in reporting all important operations at the well, together with the dates thereof, in the order of their performance. Such operations include drilling, re-drilling, deepening, plugging, or altering casing as by perforating, shooting, or pulling. Include in your report size of hole drilled, re-drilled, or deepened; size, weight and length of casing landed, cemented, or removed, amount and location of perforations; number of sacks of cement used in cementing or plugging operations, number of feet of cement drilled out of casing, location of top and bottom of cement plugs. If the well was dynamited, give date, dimensions and weight of all shots. If tests were made give interval tested and results of tests, such as, amount and nature of fluids recovered.

Date

1946

7-16

21

Spudded in, drilling 12½" hole.

Depth 1700'. Ran Lane-Wells electric log to 1696'. Cemented with 100 sacks thru drill pipe hung at 500', to regain circulation. Found top of cement at 580'. Cemented with 75 sacks thru drill pipe hung at 483'.

22

Found top of cement at 457'. Drilled out firm cement 457-535', and 580-652'. Cleaned out to bottom.

23

Cemented 8 5/8" 32# American seamless, and 38# Grade D seamless, at 1700', with 200 sacks construction cement. Cemented around top of 8 5/8" casing with additional cement.

24

Found top of cement at 1680'. Drilled out to 1705' with 7 5/8" bit. Set Johnston tester at 1683', with tailpiece to 1693'. Opened tester at 6:45 A.M. thru a 1/2" bean. Tester remained open 45 minutes. There was a light blow for 1/2 minute, and no blow the remainder of the test. Recovered 17' of drilling fluid. Drilled ahead with 7 5/8" bit.

8-2

Depth 2446'. Lost circulation. Waiting on oil.

4

Changed from mud to oil. Drilled 7 5/8" hole to 2545'. Discovered circulating oil returning around casing.

5

Ran Halliburton C.P. tool. Located 8 5/8" casing leak at 91'.

6

Changed from oil to mud.

9

Washed over 8 5/8" casing to 119'. Recovered casing to 91' (parted in collar.) Cut and recovered 8 5/8" casing at 108'. Ran 8 5/8" casing, with Baash-Ross lead seal pack-off casing bawl. Took hold of 8 5/8" at 108', and re-landed same.

10

Cemented outside 8 5/8" casing with 160 sacks construction cement, thru 1" pipe hung at 75'. Cement returned to surface. Drilled ahead with 7 5/8" bit.

15

Depth 3300'. Ran Lane-Wells electric log to 3299'. Drilled ahead with 7 5/8" bit.

17

" 3501'. " " " " 3501'.

18

Resmed with 7 5/8" reamer to 3501'. Landed 1818' of 6 5/8" 24# liner, including 626' of 400 M slotted, at 3501'. Top of adapter at 1683'. Perforated 2753-3379'. No CP in liner?

19

Ran 3" tubing. Washed liner with salt water. Changed from salt water to oil.

20

Landed 3" tubing. Ran rods and pump for production test. Well not productive. Suspended.

Index	Model	Cross Section	Cards	Parties
127				127
9-20-47				9-13-47
				9-13-47

Completed 12/1/47

5



Spudded:  
Cemented: 7-23-46

902-3

# COUNTY OF SANTA BARBARA

STATE OF CALIFORNIA

Special Report on Oil Operations Witnessed

CEMENTING WATER STRING

No. 739

Santa Maria, Calif., July 30, 19 46

Mr. R. E. Foss

714 W. Olympic Blvd., Petroleum Bldg.  
Los Angeles 15, California

DIVISION OF OIL & GAS

RECEIVED

JUL 31 1946

Agent for Barnsdall Oil Company

SANTA MARIA, CALIFORNIA

Dear Sir:

Operations at your well Cognazzini #17 Sec. 9, T. 8 N, R. 32 W, S.B. B. & M.

Gato Ridge

Oil Field, in Santa Barbara County, were witnessed by

F. H. Johnson

, representative of the County,

on July 23, 19 46. There was also present R. M. Bischoff, Engineer for

Barnsdall Oil Co., Jerry O'Brien (Contractor) and Ed McCune, Drilling  
Foreman.

Casing Record: No surface casing set.

Set and cemented 1700' of 8-5/8" O.D. new screw joint casing. (1009'

38 lb. and 691' of 32 lb.). Baker float shoe on bottom.

The operations were performed for the purpose of Setting and cementing water string.

and the data and conclusions are as follows:

Mr. Bischoff reported a 12-1/4" rotary hole drilled to a depth of 1700'.

1. Ran casing - entered freely. Completed 2:45 A.M.
2. Mud fluid circulated approximately 30 minutes.
3. 3:50 A.M. to 4:03 A.M. 200 sacks of construction cement were pumped into casing by Halliburton Oil Well Cementing Company. Theoretically this amount should bring cement 582' above shoe. 1 bottom plug, 1 8" spacer and 2 top plugs used.
4. 4:12 A.M. to 4:35 A.M. cement was displaced with 570 cu. ft. of mud fluid.
5. 20' of cement were pumped in outside of casing through a 1" pipe, bringing cement to bottom of cellar.

Oral approval of cementing procedure is herewith confirmed.

SANTA BARBARA COUNTY OIL WELL INSPECTOR

F. H. JOHNSON, Inspector

By

*[Signature]* H



STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

Report on Test of Water Shut-off  
(FORMATION TESTER)No. T 3-2558

Mr. E. D. Carter, Santa Maria, Calif. July 29, 1946  
Goleta, Calif.  
 Agent for Barnsdall Oil Company

DEAR SIR:

Your well No. "Tognazzini" 17, Sec. 9, T. 8 N., R. 32 W., S. B. B. & M.  
Gato Ridge Area, Cat Canyon Field, in Santa Barbara County, was tested for water shut-off  
 on July 25, 1946. Mr. E. McCune, designated by the supervisor,  
 was present as prescribed in Sec. 3222 and 3223, Ch. 93, Stat. 1939; there were also present J. E. Smith,  
Engineer, and B. A. Dietrick, driller

Shut-off data: 8 5/8 in. 36 lb. casing was cemented at 1700 ft. on July 23, 1946  
 in 12 1/4" hole with 200 sacks of cement of which 4 sacks was left in casing.  
 Casing record of well: 8 5/8" only as above

Reported total depth 1705 ft. Bridged with cement from - ft. to - ft. Cleaned out to 1705 ft. for this test.  
 A pressure of 750 lb. was applied to the inside of casing for 10 min. without loss after cleaning out to 1688 ft.  
 A Johnston tester was run into the hole on 4 1/2 in. drill pipe, with - ft. of water cushion,  
 and packer set at 1683 ft. with tailpiece to 1693 ft. Tester valve, with 1/2" bean, was opened at 6:45 a.m.  
 and remained open for - hr. and 45 min. During this interval there was a light puff when  
the valve was opened.

## MR. SMITH REPORTED THE FOLLOWING:

1. The space between the 4 1/2" drill pipe and the 8 5/8" casing was filled with mud fluid and remained in that condition during the test, demonstrating that the packer prevented any migration of fluid between drill pipe and casing.

## MR. McCUNE NOTED THE FOLLOWING:

1. When the drill pipe was pulled out, approximately 17' of fluid was found in the drill pipe, equivalent to 0.2 bbl.
2. The fluid consisted of drilling mud.
3. The pressure chart indicated that the valve was open during the entire test.

## THE SHUT-OFF IS APPROVED.

This work was not witnessed by a member of this Division, for the reason that no inspector was available, but was witnessed as noted above, and the above information was furnished by Mr. E. McCune, foreman for Shamrock Drilling Co.

8 5/8" - 12 1/4"  
2.6652

200 -

4

196

2.662

523'

1700 -

523

1177 Top cement

Mc Collogh-Zuberti

3-26-53

This well never produced,  
still suspended, may  
re-enter hole.

CO	Sec.	Case	Loss	Foot
		Section		116
10045	10.48	12,500	SPC	
				7-29-46

R. D. BUSH, State Oil and Gas Supervisor

By [Signature], Deputy



STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
**DIVISION OF OIL AND GAS**

**Report on Proposed Operations**

No. P 3-3944

Santa Maria, Calif. July 3, 1948

Mr. E. D. Carter,

Goleta, Calif.

Agent for Barnsdall Oil Company

DEAR SIR:

Your proposal to drill Well No. "Tognazzini" 17, Section 9, T. 8 N., R. 32 W., S. 8 E., B. & M., Gato Ridge Area, Cat Canyon Field, Santa Barbara County, dated June 27, 1948, received July 3, 1948, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES: Kelly Bushing 1336 1/2  
The elevation of the above sea level is 1333 7/8 feet.  
ground 1326 1/2

The well is 289.00 feet N. and 743.38 feet E. from N.E. Corner of Los Alamos Rancho Lease consists of

We estimate that the first productive oil or gas sand should be encountered at a depth of about 2200 feet.

Well is to be drilled with rotary tools."

**PROPOSAL:**

"We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Csg., In.	Weight, Lb. Per Foot	Grade and Type	Depth	Landed or Cemented
8-5/8"	28	H-40	2200	Cemented
6-5/8"	24	J-55	4000	Landed

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing."

**DECISION:**

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Mud fluid of not less than 70 lb. per cubic foot shall be used in the drilling of the well and the column of mud fluid shall be maintained at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blow-out prevention equipment shall be provided and ready for operation at all times.
3. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:  
A test of the 8 5/8" shut-off.

Blanket bond.

R. D. BUSH

State Oil and Gas Supervisor

By

Deputy

COPIES	MAILED	CHARGE	JOHNSON	FILED
7-6-48	7-6-48	7-6-48	7-6-48	7-6-48

2

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Drill New Well

This notice must be given and surety bond filed before drilling begins

083-01455

Goleta

Calif.

June 27

19

46

DIVISION OF OIL AND GAS

Santa Maria

Calif.

DIVISION OF OIL & GAS  
RECEIVED

JUL - 3 1946

SANTA MARIA, CALIFORNIA

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of drilling well No. Tognassini #17, Sec. 9, T. 8 N, R. 32 W, S.B. B. & M., Cat Canyon (Gato Ridge Area) Field, Santa Barbara County. Lease consists of \_\_\_\_\_

The well is 289.00 feet N. 74.18 feet E. from N.E. Corner of Los Alamos Ranch  
(Give location in distance from section corners or other corners of legal subdivision)

The elevation of the derrick floor above sea level is 1336 2 feet.  
1337 2  
1326 2

We estimate that the first productive oil or gas sand should be encountered at a depth of about 2200 feet.

We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Casing, Inches	Weight, Lb. Per Foot	Grade and Type	Depth	Landed or Cemented
8-5/8"	28	H-40	2200	Cemented
6-5/8"	24	J-55	4000	Landed

Well is to be drilled with rotary tools.

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing.

Address Box R # 1, Goleta, Calif.

Barnes Oil Company  
(Name of Operator)

Telephone number Goleta 83602

By R. D. Carter  
Agent

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

Wells	Wells	Crow	Crow	Page
#		Section		
7-6-46				214 371
				7-3-46 7-3-46